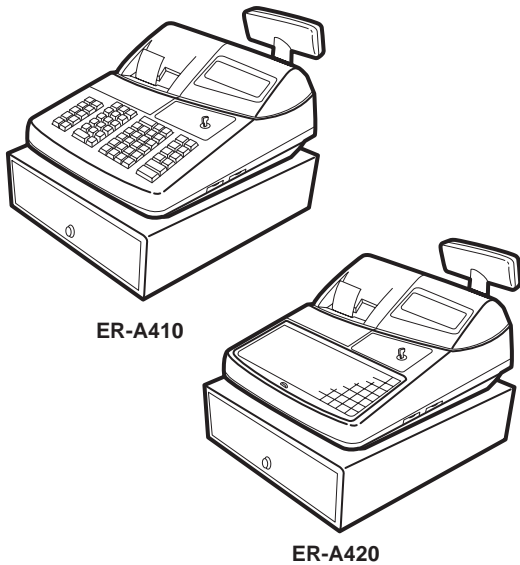


# SHARP PROGRAMMING MANUAL

CODE : 00ZERA410UPME



## ELECTRONIC CASH REGISTER

### ER-A410 MODEL ER-A420

(For "U/A" version)

SRV KEY : LKGIM7113RCZZ

PRINTER : PR-45M II

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Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

**SHARP CORPORATION**

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The contents are subject to change without notice.

# CHAPTER 1. SERVICE (SRV) MODE

The SRV key is used for SRV mode operations.

A MASTER RESET clears the entire memory and resumes initial values.

A PROGRAM RESET initializes the program without clearing memory.

There are 2 kinds of MASTER RESET operations.

## MASTER RESET 1: Normal MASTER RESET

Clears the entire memory and resumes initial values.

MASTER RESET 2: Enables the layout of the fixed keys in addition to performing a MASTER RESET 1.

Fixed keys: [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [00]  
[000] [.] [CL] [ @/FOR] [SBTL]  
[CA/AT]

## 1. RESET PROCEDURES

### ■ MASTER RESET 1

Please use "Procedure A" or "Procedure B"

Procedure A: 1) Set the mode switch to the (SRV) position.  
2) Plug the AC power cord into the wall outlet.  
3) While holding down the JOURNAL FEED key, turn the mode switch to (SRV) position from the (SRV') position.

Procedure B: 1) Unplug the AC power cord from the wall outlet.  
2) Set the mode switch to the (SRV) position.  
3) While holding down the JOURNAL FEED key, plug in the AC cord to the wall outlet.

Note: Procedure B cannot reset the hardware.  
Procedure A must be used to reset the hardware.

### ■ MASTER RESET 2

Please use "Procedure A" or "Procedure B"

Procedure A: 1) Set the mode switch to the (SRV) position.  
2) Plug in the AC power cord into the wall outlet.  
3) While holding down the JOURNAL FEED key & the RECEIPT FEED key, turn the mode switch to (SRV) position from (SRV') position.  
4) Program the [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [00] [000] [.] [CL] [ @/FOR] [SBTL] [CA/AT] keys by depressing the desired keys in this order.

Note: If the [000] key is not required, press the same key at the next step, and the [000] key will be inhibited.

Procedure B: 1) Unplug the AC power cord from the wall outlet.  
2) Set the mode switch to the (SRV) position.  
3) While holding down the JOURNAL FEED key & the RECEIPT FEED key, plug the AC power cord into the wall outlet.  
4) Repeat the same sequence as in "Procedure A"

Note: Procedure B cannot reset the hardware.  
Procedure A must be used to reset the hardware.

### ■ PROGRAM RESET

Please use "Procedure A", "Procedure B" or "Procedure C"

Procedure A: 1) Set the mode switch to the (SRV) position.  
2) Plug in the AC power cord into the wall outlet.  
3) Without pressing any function keys, turn the mode switch to (SRV) position from (SRV') position.

Procedure B: 1) Unplug the AC power cord from the wall outlet.  
2) Set the mode switch to the (SRV) position.  
3) Without pressing any function keys, plug the AC power cord into the wall outlet.

Procedure C: 1) Unplug the AC power cord from the wall outlet.  
2) Set the mode switch to the PGM2 position.  
3) While holding down the JOURNAL FEED key & the RECEIPT FEED key, plug in the AC power cord to the wall outlet.

\*"Procedure C" can be executed when SRV#926-B is +4: PROGRAM RESET in PGM2 = ENABLE.

Note: Procedure B and C cannot reset the hardware.  
Procedure A must be used to reset the hardware.

## 2. SETUP PROCEDURES

### ■ MASTER RESET 1

1) During the memory clearing and initializing, "\*\*\*MRS.\*\*\*" is displayed on upper line.  
2) When the MASTER RESET is performed, the buzzer beeps 3 times and MASTER RESET\*\*\* is printed.

### ■ MASTER RESET 2

1) The fixed key code and text that may be programmed is displayed.  
ex) 

001 0 KEY
-----------

 → 

002 1 KEY
-----------

 → ...  
2) During memory clearing and initializing, "\*\*\*MRS.\*\*\*" is displayed on upper line.  
3) When the MASTER RESET is performed, the buzzer beeps 3 times and MASTER RESET\*\*\* is printed.

### ■ SERVICE RESET

1) When a SERVICE RESET is performed, "PROGRAM RESET \*\*\*" is printed. Buzzer does not beep.

## 3. READING OF THE SRV MODE PROGRAM

### List of program reports

JOB#	Report name
900	SRV-mode program full item report (not incl. keyboard layout)
950	Keyboard layout report (except Dept. key & PLU key)
951	Keyboard layout report (only Dept. key & PLU key)
990	SSP report

Note: Program reports are printed on the RECEIPT & JOURNAL.

\*This following sample program readings are based on the ER-A420.

### [JOB# 900]

Reading the contents of the SRV mode programming

Key operation.

900 → [ @/FOR ] → [ CA/AT ]

SHARP PRESENTS THE ER-A420 SHARP IS THE BEST			
01/06/2000 9:01PM 0001			Date/Time/Cashier code
000000#0009			Machine No./CC-No./Cashier name
			Cashier code/Cashier name
#900			Job code
901#	0002		Contents of the
902#	0000		SRV-mode programming
903#	5000		
929# 0000			
980# 0000			
930#	Z1 0000		General Z1 reset counter
933#	Z1 0000		Houly Z1 reset counter
934#	Z1 0000		PLU Z1 reset counter
935#	Z1 0000		Cashier Z1 reset counter
936#	Z1 0000		PBLU Z1 reset counter
937#	Z2 0000		General Z2 reset counter
939#	Z2 0000		Daily net Z2 reset counter
942#			
GT2	\$000000000000.00		GT2
943#			
GT3	\$000000000000.00		GT3
969#			
TR	\$000000000000.00		TR
944# 0000			PGM2 mode secret code
948#	00		Training cashier No.
949#	**TRAINING**		Training mode title
975#			Memory Allocation
	1 10		Department
	2 500		PLU record
	3 0		PBLU record
	4 20		Cashier
985# 0			
986#	\$		Domestic currency symbol
987#	0		Initial text mode programming

### [JOB# 950]

Reading the contents of the SRV mode programming for the FREE KEY LAYOUT setting. (Function Keys)

Key operation

950 → [ @/FOR ] → [ CA/AT ]

SHARP PRESENTS THE ER-A420 SHARP IS THE BEST			
01/06/2000 9:01PM 0001			Date/Time/Cashier code
000000#0010			Machine No./CC-No./Cashier name
			Cashier code/Cashier name
#950			Job code
001	0 KEY	085	Key No./Key text/Location No.
002	1 KEY	086	
003	2 KEY	093	
004	3 KEY	100	
005	4 KEY	087	
006	5 KEY	094	
007	6 KEY	101	
008	7 KEY	088	
009	8 KEY	095	
010	9 KEY	102	
011	00 KEY	092	
012	000KEY	---	
013	. KEY	096	
014	CLEAR	103	
015	@/FOR	089	
016	SBTL	106	
017	CA/AT	113	
018	MDS ST	099	
019	TRY ST	---	
020	#/TM	097	
021	NS	---	
022	PLU/SB	---	
023	RF SAL	---	
024	L1	091	
025	L2	098	
026	L3	105	
027	P. SFT	090	
028	TAX1SF	115	
029	TAX2SF	---	
030	TAX3SF	---	
031	TAX4SF	---	
032	FS SFT	---	
033	PRINT	---	
034	SLIP	---	

The programming contents are printed only on the journal for individual formats as shown above.

# [JOB# 951]

Reading the contents of the SRV mode programming for FREE KEY LAYOUT setting. (Dept. & PLU keys)

Key operation

951 → [ @/FOR ] → [ CA/AT ]

035	VOID	116
036	RFND	109
037	%1	110
038	%2	---
039	%3	---
040	%4	---
041	(-) 1	117
042	(-) 2	---
043	(-) 3	---
044	(-) 4	---
045	TAX	---
046	AUTO	112
047	AUTO2	---
048	AUTO3	---
049	AUTO4	---
050	AUTO5	---
051	CA2	---
052	CHECK	114
053	CHECK2	---
054	CH1	107
055	CH2	108
056	CH3	---
057	CH4	---
058	CH5	---
059	CONV1	---
060	CONV2	---
061	CONV3	---
062	CONV4	---
063	PBLU	---
064	N. C.	---
065	SRVC	---
066	FINAL	---
067	DEPO	---
068	DEP. RF	---
069	FSTEND	---
070	RA	118
071	RA 2	---
072	RCP/PO	111
073	PO 2	---
074	CASH#	119
075	BIRTH	---
076	DEPT#	---
077	SCALE	104
078	OPN TR	---
079	RCPT	---

## SHARP PRESENTS THE ER-A420 SHARP IS THE BEST

01/06/2000 9:02PM 0001 — Date/Time/Cashier code  
000000#0011 — Machine No./CC-No./Cashier name  
— Cashier code/Cashier name  
#951 — Job code  
— Key No./Key label/Location No.

001	001	---
002	002	---
003	003	---
004	004	---
005	005	---
006	006	---
007	007	---
008	008	---
009	009	---
010	010	---
011	011	---
012	012	---
013	013	---
014	014	---
015	015	---
016	016	---
017	017	---
018	018	---
019	019	---
020	020	---
021	021	001
022	022	008
023	023	015
024	024	022
025	025	029
026	026	036
027	027	043
028	028	050
029	029	057
030	030	064
031	031	071
032	032	078
033	033	002
034	034	009

# [JOB#990]

Reading the contents of the SRV mode programming for the SSP settings.

Key operation

990 → [ @/FOR ] → [ CA/AT ]

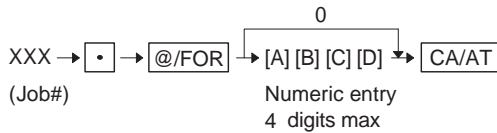
074	<b>074</b>	040
075	<b>075</b>	047
076	<b>076</b>	054
077	<b>077</b>	061
078	<b>078</b>	068
079	<b>079</b>	075
080	<b>080</b>	082
081	<b>081</b>	006
082	<b>082</b>	013
083	<b>083</b>	020
084	<b>084</b>	027
085	<b>085</b>	034
086	<b>086</b>	041
087	<b>087</b>	048
088	<b>088</b>	055
089	<b>089</b>	062
090	<b>090</b>	069
091	<b>091</b>	076
092	<b>092</b>	083
093	<b>093</b>	021
094	<b>094</b>	028
095	<b>095</b>	035
096	<b>096</b>	042
097	<b>097</b>	049
098	<b>098</b>	056
099	<b>099</b>	063
100	<b>100</b>	070
101	<b>101</b>	077
102	<b>102</b>	084
103	<b>103</b>	---
104	<b>104</b>	---
105	<b>105</b>	---
106	<b>106</b>	---
107	<b>107</b>	---
108	<b>108</b>	---
109	<b>109</b>	---
110	<b>110</b>	---
111	<b>111</b>	---
112	<b>112</b>	---
113	<b>113</b>	---
114	<b>114</b>	---
115	<b>115</b>	---
116	<b>116</b>	---
117	<b>117</b>	---
118	<b>118</b>	---
119	<b>119</b>	---

**SHARP  
PRESENTS THE  
ER-A420  
SHARP  
IS  
THE BEST**

01/06/2000 9:06PM 0001	—	Date/Time/Cashier code
000000#0013	—	Machine No./CC-No./Cashier name
-----	—	Cashier code/Cashier name
#990	—	Job code
<b>*SSP*</b>		
SSP ERA410/420U - 001	—	SSP No. (Reading report only)
001	001	
002	001	
003	001	
004	001	
005	001	
006	001	
007	001	
008	001	
009	001	
010	001	
011	001	
012	001	
013	001	
014	001	
015	001	
016	001	
017	001	
018	001	
019	001	
CHECK SUM ERROR		

## 4. SERVICE MODE PROGRAMMING

The following are the key operations required for programming.



Details of [A] [B] [C] [D] will be discussed at each item description.

★ mark is MRS setting.

**[JOB#901] ER-A410: MRS = 0002  
ER-A420: MRS = 0002**

#901-A: Not used (Fixed at "0")

#901-B: Tax system

1. TAX system	901-B
Auto TAX 1~4 Manual TAX	0
Canadian TAX (Type1 to Type10)	6
Canadian TAX (TypeII: VAT on VAT)	7

★

#901-C: 1. Rounding system

1. Rounding system	901-C
Normal	0
Singapore	8

★

#901-D: 1. TAB setting

1. TAB setting	901-D
0.	0
0.0	1
0.00	2
0.000	3

★

**[JOB#902] ER-A410: MRS = 0000  
ER-A420: MRS = 0000**

#902-A, B, C, D: Not used (Fixed at "0000")

**[JOB#903] ER-A410: MRS = 5000  
ER-A420: MRS = 5000**

#903-A: 1. Baud Rate for ECR data copying

1. Baud rate (bps)	903-A
9600	4
19200	5

★

#903-B: 1. Symbol of scale entry

1. Symbol of scale entry	903-B
"LB"	0
"KG"	2

★

#903-C: 1. Entry of tare

2. Unit of weight for the scale

1. Entry of tare	2. Unit of weight for the scale	903-C
Disallowed	2ID (3ID) + 2DD	0
	1ID (2ID) + 3DD	1
Allowed	2ID (3ID) + 2DD	2
	1ID (2ID) + 3DD	3

★

#903-D: 1. Food stamp system

1. Food stamp system	903-D
No food stamps	0
TAX not payable in food stamps	1
TAX payable in food stamps	2
Food stamp forgiveness	3

★

**[JOB#904] ER-A410: MRS = 0000  
ER-A420: MRS = 0000**

#904-A: 1. Printing of date

1. Printing of date	904-A
Yes	0
No	4

★

#904-B: 1. Printing of Consecutive No.

1. Printing of Consecutive No.	904-B
Yes	0
No	4

★

#904-C, D: Not used (Fixed at "00")

**[JOB#905] ER-A410: MRS = 0005**  
**ER-A420: MRS = 0005**

- #905-A: 1. Taxable 4 subtotal printing on X/Z report.  
 2. Gross Tax 4 and refund Tax 4 total print on X/Z report.  
 3. Net Tax 4 total print on X/Z report.

1. Taxable 4 SBTL	2. Gross Tax 4 and refund Tax 4	3. Net Tax 4	905-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

- #905-B: 1. Tax printing when taxable subtotal is zero.  
 2. Tax printing when GST is VAT.  
 3. Tax printing when tax is zero.

1. Taxable subtotal is zero	2. GST is VAT	3. Tax is zero	905-B
Skip	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Print	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

- #905-C: 1. GST EXPT print on X/Z report

1. GST EXPT	905-C
Print	0
Skip	4

★

- #905-D: 1. TAX METHOD

	Tax4 method (GST)	Tax3 method		Tax2, 1 method (PST)	905-D
		GST	PST		
Type ①	VAT	VAT		Tax on Tax	0
Type ②				Tax on Base	1
Type ③	VAT			Tax on Tax	2
Type ④				Tax on Base	3
Type ⑤	Add on Tax			Tax on Tax	4
Type ⑥				Tax on Base	5
Type ⑦	Add on Tax	VAT		Tax on Tax	6
Type ⑧				Tax on Base	7
Type ⑨	Add on Tax	Add on Tax		Tax on Tax	8
Type ⑩				Tax on Base	9

★

**[JOB#906] ER-A410: MRS = 0021**  
**ER-A420: MRS = 0021**

- #906-A: 1. Printing of PLU codes  
 2. Entry which makes the PLU stock counter negative

1. Printing of PLU codes	2. Entry which makes the PLU stock counter neg- ative	906-A
NO	Allowed unconditionally	0
	Operation allowed despite error message	1
	inhibited	2
YES	Allowed unconditionally	4
	Operation allowed despite error message	5
	inhibited	6

★

- #906-B: 1. Bottle return function  
 2. Hash setting

1. Bottle return function	2. Hash setting	906-B
Disable	Disable	0
	Enable	2
Enable	Disable	4
	Enable	6

★

- #906-C: 1. Split pricing counting  
 2. Multiplication entry

1. Split pricing counting	2. Multiplication entry	906-C
Quantity	Multiplication	0
	Successive multiplication	1
	Split pricing	2
Package	Multiplication	4
	Successive multiplication	5
	Split pricing	6

★

- #906-D: 1. Presetting of Consecutive No.  
 2. Fractional quantity (3 digit decimal places)

1. Presetting of Consecu- tive No.	2. Fractional quantity (3-digit decimal places)	906-D
Yes	No	0
	Yes	1
No	No	2
	Yes	3

★

**[JOB#907] ER-A410: MRS = 0010**  
**ER-A420: MRS = 0010**

#907-A, B: Not used (Fixed at "00")

#907-C: 1. In case of individual and all cashier CCD, X report before CCD entry

2. Minus DEPT. / PLU

1. In case of all individual and all cashier CCD, X report before CCD entry	2. Minus DEPT. / PLU	907-C
Disable	Disable	0
	Enable	1
Enable	Disable	4
	Enable	5

★

#907-D: 1. CCD compulsory

1. CCD compulsory	907-D
Non compulsory	0
For individual cashier	1
For all cashier	2

★

**[JOB#908] ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

#908-A: Printing of GT on Z report

GT1 (NET)	GT2 (+)	GT3 (-)	908-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#908-B: Printing of GT on X report

GT1 (NET)	GT2 (+)	GT3 (-)	908-B
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

★

#908-C: 1. Addition to the hourly total in void mode

2. X1/Z1 report at X2/Z2 mode

3. Resetting of consecutive number in Z1

1. Addition to the hourly total in void mode	2. X1/Z1 report at X2/Z2 mode	3. Resetting of consecutive No.in Z1	908-C
No	Enable	No	0
		Yes	1
	Disable	No	2
		Yes	3
Yes	Enable	No	4
		Yes	5
	Disable	No	6
		Yes	7

★

#908-D: 1. Printing X/Z report (Except the individual cashier)

2. GT resetting at Z1 general resetting

1. Printing X/Z report	2. GT resetting at Z1	908-D
Receipt & Journal	No	0
	Yes	1
Journal	No	4
	Yes	5

★

**[JOB#909] ER-A410: MRS = 2000**  
**ER-A420: MRS = 2000**

#909-A: 1. Printing of training GT on the X report

2. Printing of training GT on the Z report

1. Printing of training GT on the X report	2. Printing of training GT on the Z report	909-A
NO	YES	0
	NO	1
YES	YES	2
	NO	3

★

#909-B: 1. Printing of data on PLU resetting report

1. Printing of data on PLU resetting report	909-B
Yes	0
No	4

★

#909-C: 1. Printing of void mode & MGR void in Z2 report

2. Printing of void mode & MGR void in Z1 report

1. Printing of void mode & MGR void in Z2 report	2. Printing of void mode & MGR void in Z1 report	909-C
YES	YES	0
	NO	2
NO	YES	4
	NO	6

★

#909-D: Not used (Fixed at "0")



**[JOB#910] ER-A410: MRS = 0204**  
**ER-A420: MRS = 0204**

#910-A: Not used (Fixed at "0")

#910-B: 1. Cashier code display

2. Auto cashier sign off at the end of transaction

1. Cashier code display	2. Auto cashier sign off at the end of transaction	910-B
Hidden	No (After cashier Z1 only)	0
	Yes (Everytime)	1
Appear	No (After cashier Z1 only)	2
	Yes (Everytime)	3

★

#910-C: Not used (Fixed at "0")

#910-D: 1. Cashier system code entry (Fixed at "4")

**[JOB#911] ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

#911-A: 1. Fraction treatment

1. Fraction treatment	911-A
Round off	0
Round up unit	1
Disregarding	2

★

#911-B, C, D: Not used (Fixed at "000")

**[JOB#912] ER-A410: MRS = 0061**  
**ER-A420: MRS = 0060**

#912-A: 1. Date print format

Date format	912-A
Month/Day/Year	0
Day/Month/Year	1
Year/Month/Day	2

★

#912-B: 1. Time system

1. Time system	912-B
12H	0
24H	1

★

#912-C: 1. Receipt After transaction format

2. Copy receipt

3. Footer print control

1. Receipt After	2. Copy receipt	3. Footer print control	912-C
Total only	No	All receipt	0
		On selected function keys at the time of finalization	1
	Yes	All receipt	2
		On selected function keys at the time of finalization	3
Detail	No	All receipt	4
		On selected function keys at the time of finalization	5
	Yes	All receipt	6
		On selected function keys at the time of finalization	7

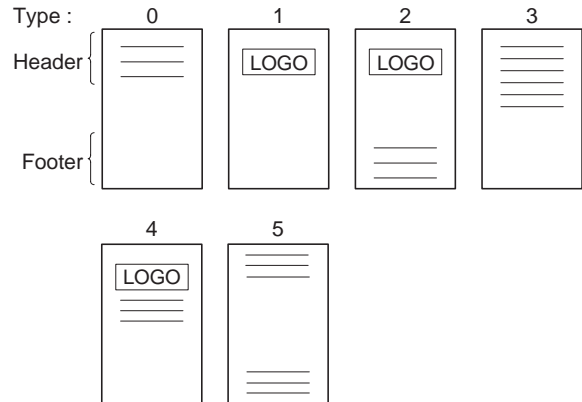
★

#912-D: 1. LOGO Message control.

1. LOGO Message control	912-D
3-line header instead of a LOGO	0
Graphical LOGO only	1
Graphical LOGO and 3-line footer	2
6-line header	3
Graphical LOGO and 3-line header	4
3-line header and 3-line footer	5

★  
(ER-A420)

★  
(ER-A410)



**[JOB#913] ER-A410: MRS = 0104**  
**ER-A420: MRS = 0104**

#913-A: 1. Content of total VP amount

1. Content of total VP amount	913-A
Total amount	0
Tendered amount	1

★

#913-B: 1. Printing of subtotal by ST key

2. Printing of MDSE ST

3. Escape the compulsory of VP and SLIP

1. Printing of subtotal by ST key	2. Printing of MDSE ST	3. Escape compulsory VP and SLIP	913-B
No	No	Disable	0
	No	Enable	1
Yes	Yes	Disable	2
		Enable	3
	No	Disable	4
		Enable	5
Yes	Yes	Disable	6
		Enable	7

★

#913-C: 1. Buzzer off 2 sec. after lock error

2. Buffered keyboard

1. Buzzer off 2sec. after lock error	2. Buffered keyboard	913-C
2-sec. off	Yes	0
	No	1
Constant (Till error recovery)	Yes	2
	No	3

★

#913-D: 1. Drawer closing is compulsory

2. Error mode

3. Key touch sound

1. Drawer closing	2. Error mode	3. Key touch sound	913-D
Non-compulsory	All lock error	Enable	0
		Disable	1
	Misoperation (One shot error)	Enable	2
		Disable	3
Compulsory	All lock error	Enable	4
		Disable	5
	Misoperation (One shot error)	Enable	6
		Disable	7

★

[JOB#914] ER-A410: MRS = 1100

ER-A420: MRS = 1100

#914-A: 1. Receipt issuing at no-sale

2. [NS] key separation from [CA/AT] key for no-sale function

3. Tax delete

1. Receipt issuing at no-sale	2. [NS] key separation	3. Tax delete	914-A
Enable	Yes	Inhibit	0
		Enable	1
	No	Inhibit	2
		Enable	3
Disable	Yes	Inhibit	4
		Enable	5
	No	Inhibit	6
		Enable	7

★  
(ER-A420)

★  
(ER-A410)

#914-B: 1. No-sale after NON ADD code entry

1. No-sale after # entry	914-B
Disable	0
Enable	1

★

#914-C: 1. Void mode

2. Non-add code entry at the beginning of a transaction operation

1. Void mode	2. Non-add code entry	914-C
Enable	Non-compulsory	0
	Compulsory	1
Disable	Non-compulsory	2
	Compulsory	3

★

#914-D: 1. Manual tax

2. Check cashing

3. Non-add No. entry

1. Manual tax	2. Check cashing	3. Non-add No. entry	914-D
Enable	Disable	Enable	0
		Disable	1
	Enable	Enable	2
		Disable	3
Disable	Disable	Enable	4
		Disable	5
	Enable	Enable	6
		Disable	7

★

[JOB#915] ER-A410: MRS = 0000

ER-A420: MRS = 0000

#915-A, B: Not used (Fixed at "00")

#915-C: 1. ST (-), ST (%) as many times needed/once only

1. ST (-), ST (%) as many times needed/operation only once	915-C
Unlimited	0
Once only	2

★

#915-D: Not used (Fixed at "0")

[JOB#916] ER-A410: MRS = 1400

ER-A420: MRS = 1400

#916-A: 1. Print format when and amount overlaps each other REG mode

1. Print format when and amount overlaps each other REG mode	916-A
Truncate	0
2 line print	1

★

#916-B: 1. Finalization by charge when ST is 0 or below

2. Food stamp subtotal entry before food stamp tender

1. Finalization by charge when ST is 0 or below	2. Food stamp subtotal entry before food stamp tender	916-B
RFND type of sales only	Non-compulsory	0
	Compulsory	1
Always	Non-compulsory	4
	Compulsory	5

★

#916-C: 1. Negative merchandise subtotal

2. Subtotal entry compulsory before tendering
3. Subtotal entry before direct non-tendering finalization

1. Negative merchandise subtotal	2. Subtotal entry compulsory before tendering	3. Subtotal entry before direct non-tendering finalization	916-C
Enable	Non-compulsory	Non-compulsory	0
		Compulsory	1
	Compulsory	Non-compulsory	2
		Compulsory	3
Disable	Non-compulsory	Non-compulsory	4
		Compulsory	5
	Compulsory	Non-compulsory	6
		Compulsory	7

★

#917-B: 1. Printing of Taxable 2 subtotal on X/Z report

2. Printing of Gross Tax 2 and refund Tax 2 total on X/Z report
3. Printing of Net Tax 2 total on X/Z report

1. Taxable 2 subtotal on X/Z report	2. Gross Tax 2 and refund Tax 2 total on X/Z report	3. Net Tax 2 total on X/Z report	917-B
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#916-D: 1. Coupon PLU printing on X/Z report

2. Net sales subtotal (NET1) printing on X/Z report
3. CHECK change total printing on X/Z report

1. Print coupon PLU's on general report	2. Print net sales SBT (NET1) on general report	3. Print CHK CHANGE on general report	916-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#917-C: 1. Printing of Taxable 3 subtotal on X/Z report

2. Printing of Gross Tax 3 and refund Tax 3 total on X/Z report
3. Printing of Net Tax 3 total on X/Z report

1. Taxable 3 subtotal on X/Z report	2. Gross Tax 3 and refund Tax 3 total on X/Z report	3. Net Tax 3 total on X/Z report	917-C
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

[JOB#917] ER-A410: MRS = 0000  
ER-A420: MRS = 0000

#917-A: 1. Printing of Taxable 1 subtotal on X/Z report

2. Printing of Gross Tax 1 and refund Tax 1 total on X/Z report
3. Printing of Net Tax 1 total on X/Z report

1. Taxable 1 subtotal on X/Z report	2. Gross Tax 1 and refund Tax 1 total on X/Z report	3. Net Tax 1 total on X/Z report	917-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#917-D: 1. Printing of Total Tax amount on X/Z report

2. Printing of Gross manual Tax and refund manual Tax on X/Z
3. Printing of Net manual Tax total on X/Z report

1. Total Tax Amount	2. Gross manual Tax and Refund manual Tax on X/Z report	3. Net manual Tax total on X/Z report	917-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

**[JOB#918] ER-A410: MRS = 2000**  
**ER-A420: MRS = 2000**

#918-A: 1. Printing the text of a tied PLU in set PLU

2. Direct non-tendering finalization after previous tender enter

1. Printing the text of a tied PLU in set PLU	2. Direct non-tendering finalization after previous tender enter	918-A
YES	Disable	0
	Enable	2
NO	Disable	4
	Enable	6

★

#918-B: 1. Fractional entries for non-scalable PLU/DEPT.

1. Fractional entries for non-scalable PLU/DEPT.	918-B
Enable	0
Disable	1

★

#918-C, D: Not used (Fixed at "00")

**[JOB#919] ER-A410: MRS = 0400**  
**ER-A420: MRS = 0400**

#919-A: Not used (Fixed at "0")

#919-B: 1. Checking of cashier # on guest check when a reorder is made

2. Guest check No.

1. Checking of cashier # on guest check when a reorder is made	2. Guest check No.	919-B
YES	Auto generation	0
	Manual	1
NO	Auto generation	4
	Manual	5

★

#919-C: 1. PBLU entry

2. Amount printing when PLU unit price is 0

1. PBLU entry	2. Amount printing when PLU unit price is 0	919-C
Non-compulsory	No	0
	Yes	1
Compulsory	No	2
	Yes	3

★

#919-D: 1. Conversion SBTL printing of native SBTL

2. Foreign currency format

1. Conversion SBTL print of native SBTL	2. Foreign currency	919-D
Yes	Not	0
	Omit digits lower than TAB position	1
No	Not	4
	Omit digits lower than TAB position	5

★

**[JOB#920] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#921] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#922] ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

#922-A: Not used (Fixed at "0")

#922-B: 1. Using new coin dispenser which can treat \$1 coins

1. Using new coin dispenser which can treat \$1 coins	922-B
No	0
Yes	1

★

#922-C, D: Not used (Fixed at "00")

**[JOB#923] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#924] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#925] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#926] ER-A410: MRS = 0400**  
**ER-A420: MRS = 0400**

#926-A: Not used (Fixed at "0")

#926-B: 1. Program reset at PGM2 mode

1. Program reset at PGM2 mode	926-B
Disable	0
Enable	4

★

#926-C, D: Not used (Fixed at "00")

**[JOB#927] NOT USED ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

**[JOB#928] ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

#928-A: 1. Printing of slip LOGO text

1. Printing of slip LOGO text	928-A
No	0
Yes	1

★

#928-B: 1. VP message printing on slip

2. Header line on slip paper when a reorder is made printed

1. VP message printing on slip	2. Header line on slip paper when a reorder is made printed	928-B
Check only	Printed	0
	Not	1
Check & Credit	Printed	2
	Not	3

★

#928-C: 1. Printing of PLU on slip when it is \$0.00

2. Printing the text of a tied PLU of a set PLU on slip

1. Printing of PLU on slip when it is \$0.00	2. Printing the text of a tied PLU on slip	928-C
YES	YES	0
	NO	2
NO	YES	4
	NO	6

★

## 2. Compulsory slip print system

★

[JOB#929] ER-A410: MRS = 0000  
ER-A420: MRS = 0000

#929-A, B, C: Not Used (Fixed at "000")

#### #929-D: 1. Taxable status assignment method of PLU items

★

[JOB#980] ER-A410: MRS = 0000  
ER-A420: MRS = 0001

#980-A: 1. Stock function

★

#980-B: 1. Hash department effect hourly sales total

★

#980-C: Not used (Fixed at "0")

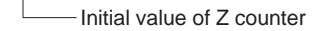
### #980-D: 1. RCPT key separation from RCPT/PO key

2. PLU PRICE 2 is enabled

★  
(ER-A410)

**[JOB#930~939] ER-A410: MRS = 0000**  
**ER-A420: MRS = 0000**

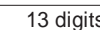
## RESET REPORT COUNTER



JOB #	Function
930	Z1 report counter
933	Hourly Z1 report counter
934	PLU Z1 report counter
935	Cashier Z1 report counter
936	PBLU Z1 report counter
937	Z2 report counter
939	Daily net Z2 report counter

[JOB#942, 943, 969] ER-A410: MRS = 00000000000000  
ER-A420: MRS = 00000000000000

## GT COUNTER PRESETTING



JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)
969	Training GT

Note: GT1 is obtained by calculation

Equation:  $GT1=GT2-GT3$

[JOB#944] ER-A410: MRS = 0000  
ER-A420: MRS = 0000

## PGM2 mode secret code presetting



Note: When the secret code "0" is programmed, the secret code entry is inhibited.

[JOB#948] ER-A410: MRS = 00  
ER-A420: MRS = 00

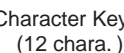
PROGRAMMING OF THE TRAINING CASHIER NO.



XX: Cashier No.

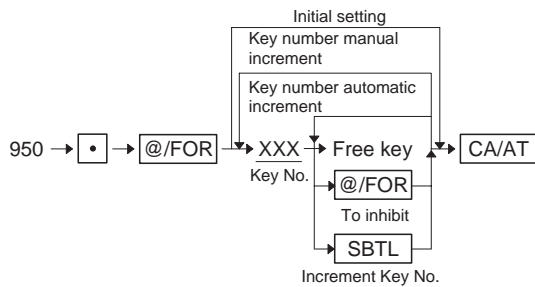
[JOB#949] ER-A410: MRS = "\*\*TRAINING\*\*"  
ER-A420: MRS = "\*\*TRAINING\*\*"

THE TRAINING MODE'S TITLE



## [JOB#950] MRS = STANDARD KEY LAYOUT

Free key layout (Except for department keys and direct PLU keys.)

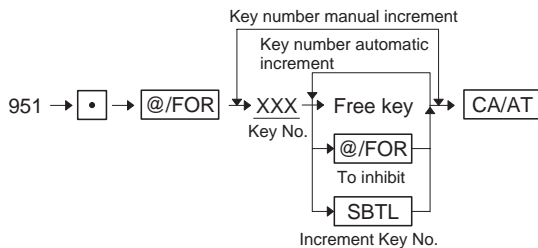


XXX: 1 to 79

999 (for inhibit key)

## [JOB#951] MRS = STANDARD KEY LAYOUT

Free key layout (department keys and direct PLU keys)



XXX: 1 to 119

999 (for inhibit key)

- The Key No. is assigned to each key which is supposed to be dept. or direct PLU key by depressing the key after entering the key No.
- Those keys programmed by this job No. will be dept. keys if dept. code is assigned, and will be direct PLU keys if PLU code is assigned in the PGM2 mode.

## FUNCTION KEY LISTKEY

No.	KEY	KEY TEXT (8 Char.)
1	0 KEY	0 KEY
2	1 KEY	1 KEY
3	2 KEY	2 KEY
4	3 KEY	3 KEY
5	4 KEY	4 KEY
6	5 KEY	5 KEY
7	6 KEY	6 KEY
8	7 KEY	7 KEY
9	8 KEY	8 KEY
10	9 KEY	9 KEY
11	00 KEY	00 KEY
12	000KEY	000KEY
13	DECIMAL POINT	. KEY
14	CLEAR	CLEAR
15	@/FOR	@/FOR
16	SUB TOTAL	SBTL
17	CA/AT	CA/AT
18	MDSE SBTL	MDS ST
19	TRAY ST	TRY ST
20	#/TM	#/TM
21	NO SALE	NS
22	PLU/SUB	PLU/SB
23	REFUND SALES	RF SAL
24	L1	L 1

No.	KEY	KEY TEXT (8 Char.)
25	L2	L 2
26	L3	L 3
27	PRICE SHIFT	P. SFT
28	TAX1 SHIFT	TAX1SF
29	TAX2 SHIFT	TAX2SF
30	TAX3 SHIFT	TAX3SF
31	TAX4 SHIFT	TAX4SF
32	FS SHIFT	FS SFT
33	PRINT	PRINT
34	SLIP	SLIP
35	VOID	VOID
36	REFUND SALES	RFND
37	%1	% 1
38	%2	% 2
39	%3	% 3
40	%4	% 4
41	(-) 1	(-) 1
42	(-) 2	(-) 2
43	(-) 3	(-) 3
44	(-) 4	(-) 4
45	TAX	TAX
46	AUTO	AUTO
47	AUTO2	AUTO2
48	AUTO3	AUTO3
49	AUTO4	AUTO4
50	AUTO5	AUTO5
51	CASH2	CA 2
52	CHECK	CHECK
53	CHECK2	CHECK2
54	CH1	CH 1
55	CH2	CH 2
56	CH3	CH 3
57	CH4	CH 4
58	CH5	CH 5
59	CONV1	CONV 1
60	CONV2	CONV 2
61	CONV3	CONV 3
62	CONV4	CONV 4
63	PBLU	PBLU
64	NEW CHECK	N. C.
65	SERVICE	SRVC
66	FINAL	FINAL
67	DEPOSIT	DEPO
68	DEPOSIT RFND	DEP. RF
69	FS TEND	FSTEND
70	RA	RA
71	RA2	RA 2
72	RCPT/PO	RCP/PO
73	PO2	PO 2
74	CASHIER NO.	CASH#
75	BIRTHDAY	BIRTH
76	DEPT. NO.	DEPT#
77	SCALE	SCALE
78	OPENTARE	OPN TR
79	RCPT	RCPT
999	INHIBIT	

## ER-A410/A420 KEYBOARD KEY POSITIONS

### ER-A410

		16	22	28	34	40	46	52	58	64	70	76	82
RECEIPT	JOURNAL												
05	10	15	21	27	33	39	45	51	57	63	69	75	81
04	09	14	20	26	32	38	44	50	56	62	68	74	80
03	08	13	19	25	31	37	43	49	55	61	67	73	79
02	07	12	18	24	30	36	42	48	54	60	66	72	78
01	06	11	17	23	29	35	41	47	53	59	65	71	77

■:FIXED KEY (CAN NOT CHANGE)

### ER-A420

		21	28	35	42	49	56	63	70	77	84	91	98	105	112	119
RECEIPT	JOURNAL															
07	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119
06	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118
05	12	19	26	33	40	47	54	61	68	75	82	89	96	103	110	117
04	11	18	25	32	39	46	53	60	67	74	81	88	95	102	109	116
03	10	17	24	31	38	45	52	59	66	73	80	87	94	101	108	115
02	09	16	23	30	37	44	51	58	65	72	79	86	93	100	107	114
01	08	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113

■:FIXED KEY (CAN NOT CHANGE)

### [JOB#975] MAX. Number programming

975 → [•] → [ @/FOR ] → X → [ @/FOR ] → YYYY → [ CA/AT ]

	X	YYYY	MRS
MAX. Number of Departments	1	1-99 (2 digit)	ER-A410 = 20, ER-A420 = 10
MAX. Number of PLU Records	2	0-1800 (6 digit)	500
MAX. Number of PBLU Records	3	0-999 (3 digit)	50
MAX. Number of Cashiers	4	1-20 (2 digit)	20

### [JOB#996, 998] RAM DATA BACKUP function (ECR ↔ ECR; 02FD.exe Protocol)

- Sending ECR RAM data

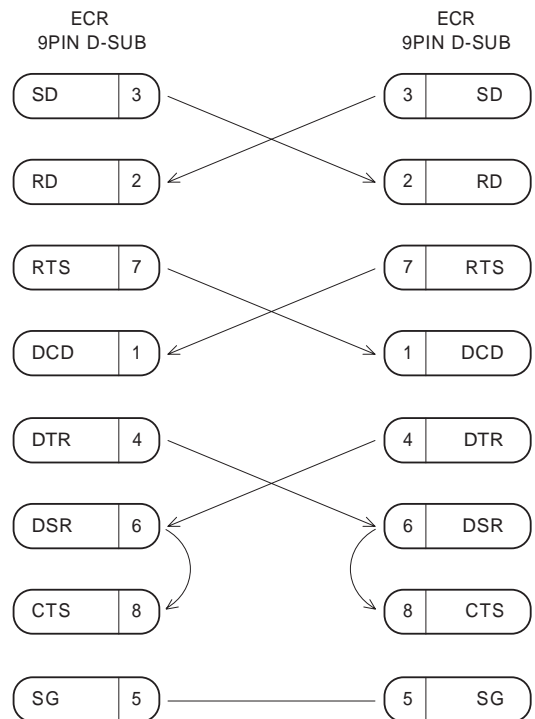
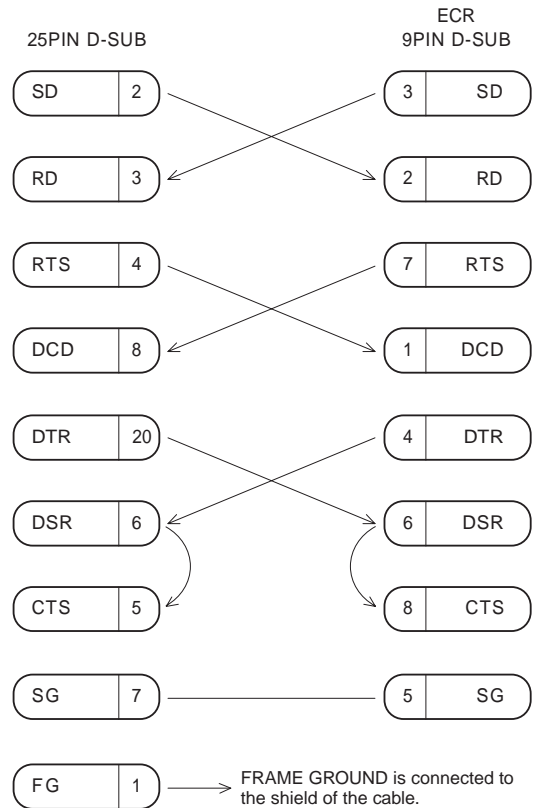
996 → [•] → [ @/FOR ] SSP only  
0 → [ CA/AT ]

- Receiving ECR RAM data

998 → [•] → [ @/FOR ] → [ CA/AT ]

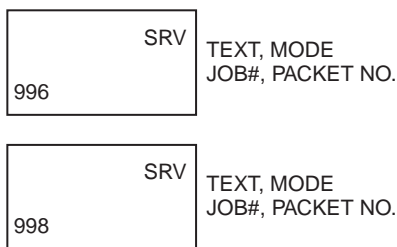
\*The Baud-rate is determined by SRV#903-A. The auto baud-rate function is not available in this model.

## [Signal connection chart]



SD: TRANSMITTED DATA  
RD: RECEIVED DATA  
DTR: DATA TERMINAL READY  
DSR: DATA SET READY  
RTS: REQUEST TO SEND  
DCD: DATA CARRIER DETECTOR  
CTS: CLEAR TO SEND  
FG: FRAME GROUND

Display during transmission



At the end of the job, one of the following messages is printed.

- Normal termination of a send operation

#996 SEND OK	JOB#, ERROR MESSAGE
--------------	---------------------

- Communication Error in a send operation

#996 COM. ERROR 01	JOB#, ERROR, MESSAGE, ERROR CODE
--------------------	----------------------------------

- Time-out in a send operation

#996 TIME OUT	JOB#, ERROR MESSAGE
---------------	---------------------

- Normal termination of a receive operation

#998 RECEIVE OK	JOB#, ERROR MESSAGE
-----------------	---------------------

- Communication Error in a receive operation

#998 COM. ERROR 01	JOB#, ERROR MESSAGE, ERROR CODE
--------------------	---------------------------------

- Data format Error in a receive operation

#998 DATA ERROR 15	JOB#, ERROR MESSAGE, ERROR CODE
--------------------	---------------------------------

- Time-out in a receive operation

#998 TIME OUT	JOB#, ERROR MESSAGE
---------------	---------------------

\*All error message are fixed.

\*ERROR CODE:

- 01 = ID No. error (ID No. in IDENQ is not correct.)
- 02 = Parity error
- 03 = Check sum error
- 04 = Data size error
- 05 = Hardware error
- 06 = Power off error
- 07 = Time out error
- 08 = DSR off error
- 11 = Transmit data size error
- 12 = Block sequence error (Irregular sequence No. has been received.)
- 13 = NAK code error (NAK code has been received.)
- 15 = ECR TYPE error (Models of two ECR is different.)

## [JOB#985]

Euro symbol programming for TM-295



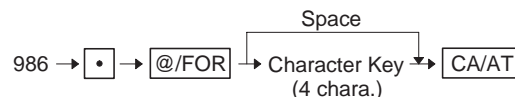
X: 0 = Space

1 = Euro symbol

MRS = 0 (Space)

**[JOB#986] ER-A410: MRS = “ \$ ”**  
**ER-A420: MRS = “ \$ ”**

Domestic currency symbol programming



Characters can be entered by using the character keys or numeric keys.

This symbol is printed with (+) amount of domestic currency. The programmed characters is printed at the left side of amount.

Ex) Case of “US\$”:

DEPT.01	US\$1.00
---------	----------

Programmed symbol

If some space characters are programmed at the left side of symbol (ex. “ \$”), they are not counted as the number of character of the currency symbol.

Ex) In the case of “ US\$”: (The currency symbol means “US\$”)

DEPARTMENT01	US\$10.00
--------------	-----------

Programmed symbol

**[JOB#987] ER-A410: MRS = 0**  
**ER-A420: MRS = 0**

Text Changing (To Default text)



X: 0 = English text

2 = French text

When this job is executed, the following data is affected.

- (a) Function text
- (b) Cashier text
- (c) Each message text (LOGO, etc..)

## [JOB#989]

Resetting of all counters and totalizers



\*All counters, totalizers, and Z counters are initialized.  
 The GT1-GT3 memories are initialized.

\*The following print is only on the journal.

#989
------

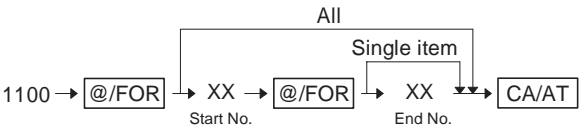


# CHAPTER 2. PROGRAM (PGM2/PGM1) MODE

## 1. READING OF THE PGM MODE PROGRAMS

### [JOB#1100] : DEPARTMENT PRESET READING

key operation



SHARP PRESENTS THE ER-A420 SHARP IS THE BEST		
01/06/2000 9:06PM 0001 000000#0014		
#1100 *PGM2*		
	01-10	
D01	0.00	
DPT. 01	G00	
000001 A00	COL17	
D02	0.00	
DPT. 02	G00	
000001 A00	COL17	
D03	0.00	
DPT. 03	G00	
000001 A00	COL17	
D04	0.00	
DPT. 04	G00	
000001 A00	COL17	
D05	0.00	
DPT. 05	G00	
000001 A00	COL17	
D06	0.00	
DPT. 06	G00	
000001 A00	COL17	
D07	0.00	
DPT. 07	G00	
000001 A00	COL17	
D08	0.00	
DPT. 08	G00	
000001 A00	COL17	
D09	0.00	
DPT. 09	G00	
000001 A00	COL17	
D10	0.00	
DPT. 10	G00	
000001 A00	COL17	

### [JOB#2119] : DIRECT KEY PRESET READING

Key operation



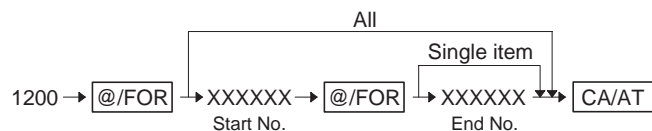
SHARP PRESENTS THE ER-A420 SHARP IS THE BEST		
01/06/2000 9:22PM 0001 000000#0019		
#2119 *PGM2*		
001	L1	D01
002	L1	D02
003	L1	D03
004	L1	D04
005	L1	D05
006	L1	D06
007	L1	D07
008	L1	D08
009	L1	D09
010	L1	D10
011	L1	D11
012	L1	D12
013	L1	D13
014	L1	D14
015	L1	D15
016	L1	D16
017	L1	D17
018	L1	D18
019	L1	D19
020	L1	D20
021	L1	P000001
	L2	----
	L3	----
022	L1	P000002
	L2	----
	L3	----
023	L1	P000003
	L2	----
	L3	----
024	L1	P000004
	L2	----
	L3	----

047	L1	P000027
	L2	----
	L3	----
048	L1	P000028
	L2	----
	L3	----
049	L1	P000029
	L2	----
	L3	----
050	L1	P000030
	L2	----
	L3	----
051	L1	P000001
	L2	P000011
	L3	----
052	L1	P000002
	L2	P000012
	L3	----
053	L1	P000003
	L2	P000013
	L3	----
054	L1	P000004
	L2	P000014
	L3	----
055	L1	P000005
	L2	P000015
	L3	----
056	L1	P000006
	L2	P000016
	L3	----
057	L1	P000007
	L2	P000017
	L3	----
058	L1	P000008
	L2	P000018
	L3	----
059	L1	P000009
	L2	P000019
	L3	----
060	L1	P000010
	L2	P000020
	L3	----
061	L1	P000041
	L2	----
	L3	----
062	L1	P000042
	L2	----
	L3	----
063	L1	P000043
	L2	----
	L3	----
064	L1	P000044
	L2	----
	L3	----
065	L1	P000045
	L2	----
	L3	----

100	L1	P000080
	L2	----
	L3	----
101	L1	P000081
	L2	----
	L3	----
102	L1	P000082
	L2	----
	L3	----
103	L1	----
	L2	----
	L3	----
104	L1	----
	L2	----
	L3	----
105	L1	----
	L2	----
	L3	----
106	L1	----
	L2	----
	L3	----
107	L1	----
	L2	----
	L3	----
108	L1	----
	L2	----
	L3	----
109	L1	----
	L2	----
	L3	----
110	L1	----
	L2	----
	L3	----
111	L1	----
	L2	----
	L3	----
112	L1	----
	L2	----
	L3	----
113	L1	----
	L2	----
	L3	----
114	L1	----
	L2	----
	L3	----
115	L1	----
	L2	----
	L3	----
116	L1	----
	L2	----
	L3	----
117	L1	----
	L2	----
	L3	----
118	L1	----
	L2	----
	L3	----
119	L1	----
	L2	----
	L3	----

# [JOB#1200] : PLU PRESET READING

Key operation



SHARP		
PRESENTS THE		
ER-A420		
SHARP		
IS		
THE BEST		
01/06/2000 9:14PM 0001		
000000#0015		
#1200 *PGM2*		
000001-999999		
P000001(O1)	/00	
	0.00	
	0.00	
PL000001	COM00	
002 A00		
P000002(O1)	/00	
	0.00	
	0.00	
PL000002	COM00	
002 A00		
P000003(O1)	/00	
	0.00	
	0.00	
PL000003	COM00	
002 A00		
P000004(O1)	/00	
	0.00	
	0.00	
PL000004	COM00	
002 A00		
P000005(O1)	/00	
	0.00	
	0.00	
PL000005	COM00	
002 A00		
P000006(O1)	/00	
	0.00	
	0.00	
PL000006	COM00	
002 A00		
P000007(O1)	/00	
	0.00	
	0.00	
PL000007	COM00	
002 A00		

PL000013	COM00	
002 A00		
P000014(O1)	/00	
	0.00	
	0.00	
PL000014	COM00	
002 A00		
P000015(O1)	/00	
	0.00	
	0.00	
PL000015	COM00	
002 A00		
P000016(O1)	/00	
	0.00	
	0.00	
PL000016	COM00	
002 A00		
P000017(O1)	/00	
	0.00	
	0.00	
PL000017	COM00	
002 A00		
P000018(O1)	/00	
	0.00	
	0.00	
PL000018	COM00	
002 A00		
P000019(O1)	/00	
	0.00	
	0.00	
PL000019	COM00	
002 A00		
P000020(O1)	/00	
	0.00	
	0.00	
PL000020	COM00	
002 A00		

## [JOB#2220] : LINK PLU PRESET READING

Key operation



SHARP		
PRESENTS THE		
ER-A420		
SHARP		
IS		
THE BEST		
01/06/2000 9:40PM 0001		
000000#0025		
#2220 *PGM2*		
000001-999999		
P000001	LP000002	
	P000003	
	P000004	
	P000005	

# [JOB#2221] : SET PLU PRESET READING

Key operation

2221 → [ @/FOR ] → [ CA/AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>		
<p>01/06/2000 9:40PM 0001 000000#0027</p>		
<p>#2221 *PGM2*</p>		
	000001-999999	
P000006	SP000007	
	P000008	
	P000009	

# [JOB#2225] : MIX & MATCH PRESET READING

Key operation

2225 → [ @/FOR ] → [ CA/AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>		
<p>01/06/2000 9:41PM 0001 000000#0029</p>		
<p>#2225 *PGM2*</p>		
#01	/01	1.00
#02	/00	0.00
#03	/00	0.00
#04	/00	0.00
#05	/00	0.00
#06	/00	0.00
#07	/00	0.00
#08	/00	0.00
#09	/00	0.00
#10	/00	0.00

# [JOB#1300] : FUNCTION PRESET READING

Key operation

1300 → [ @/FOR ] → [ CA/AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>		
<p>01/06/2000 9:42PM 0001 000000#0030</p>		
<p>#1300 *PGM2*</p>		
F001	(-) 1	
S		-0.00 L17
F005	%1	
S	3	-0.00% L100.00%
F009	NET1	
F010	TAX1 ST	
F011	GRS TAX1	
F012	RFD TAX1	
F013	TAX1	
F014	TX1 EXPT	
F015	TAX2 ST	
F016	GRS TAX2	
F017	RFD TAX2	
F018	TAX2	
F019	TX2 EXPT	
F020	TAX3 ST	
F021	GRS TAX3	
F022	RFD TAX3	
F023	TAX3	
<p>F061 CASH L18 0000 0000000000000000</p>		
F064	***RA	L18
F066	***PO	L18
F069	CHK/CG	999999.99
F076	CHARGE1	L18
	0000 0000000000000000	
F077	CHARGE1-	
F078	CHARGE2	L18
	0000 0000000000000000	
F079	CHARGE2-	
F086	CHECK1	L18
	0000 0000000000000000	
F088	CA/CH ID	
F089	****CID	999999.99
F091	AVE.	
F092	GROUP01	
F093	GROUP02	
F094	GROUP03	

[JOB#1500] : CASHIER PRESET READING

Key operation

1500 → @/FOR → CA/AT

F099 GROUP08  
 F100 GROUP09  
 F101 LEVEL 1  
 F102 LEVEL 2  
 F103 \*DEPT TL  
 F104 DEPT (-)  
 F109 COM. SAL1 0.00%  
 F110 COM. SAL2 0.00%  
 F111 COM. SAL3 0.00%  
 F112 COM. SAL4 0.00%  
 F113 COM. SAL5 0.00%  
 F114 COM. SAL6 0.00%  
 F115 COM. SAL7 0.00%  
 F116 COM. SAL8 0.00%  
 F117 COM. SAL9 0.00%  
 F118 NON COM.  
 F119 COM. AMT1  
 F120 COM. AMT2  
 F121 COM. AMT3  
 F122 COM. AMT4  
 F123 COM. AMT5  
 F124 COM. AMT6  
 F125 COM. AMT7  
 F126 COM. AMT8  
 F127 COM. AMT9  
 F128 COM. TTL  
 F135 SUBTOTAL  
 F136 MDSE ST  
 F137 \*\*\*TOTAL  
 F138 CHANGE  
 F142 ITEMS  
 F143 DEPT  
 F144 GROUP  
 F145 PLU  
 F146 STOCK  
 F147 ZERO SAL  
 F148 CATEGORY  
 F149 TRANS.  
 F150 CID  
 F151 SALES  
 F153 CASHIER  
 F154 HOURLY  
 F155 DAILY  
 F157 #  
 F158 COPY  
 F164 TARE WT.  
 F165 DUE  
 F166 TAX ST  
 F167 AMOUNT  
 F168 WEIGHT

SHARP  
 PRESENTS THE  
 ER-A420  
 SHARP  
 IS  
 THE BEST

01/06/2000 9:42PM 0001  
 000000#0031

#1500 \*PGM2\*

01CSR#	0001
	D1
02CSR#	0002
	D1
03CSR#	0003
	D1
04CSR#	0004
	D1
05CSR#	0005
	D1
06CSR#	0006
	D1
07CSR#	0007
	D1
08CSR#	0008
	D1
09CSR#	0009
	D1
10CSR#	0010
	D1
11CSR#	0011
	D1
12CSR#	0012
	D1
13CSR#	0013
	D1
14CSR#	0014
	D1
15CSR#	0015
	D1
16CSR#	0016
	D1
17CSR#	0017
	D1
18CSR#	0018
	D1
19CSR#	0019
	D1
20CSR#	0020
	D1

# [JOB#2600] : OTHER PROGRAM PRESET READING

Key operation

2600 → [ @/FOR ] → [ CA/AT ]

```

SHARP
PRESENTS THE
ER-A420
SHARP
IS
THE BEST

01/06/2000  9:42PM  0001
000000#0032

#2600 *PGM2*

#2614
    
```

# [JOB#2700] : TAX PRESET READING

2700 → [ @/FOR ] → [ CA/AT ]

```

SHARP
PRESENTS THE
ER-A420
SHARP
IS
THE BEST

01/06/2000  9:42PM  0001
000000#0033

#2700 *PGM2*

TAX1          -----
TAX2          -----
TAX3          -----
TAX4          -----
    
```

# [JOB#2640] : SLIP TEXT PROGRAMMING READING

Key operation

2640 → [ @/FOR ] → [ CA/AT ]

```

SHARP
PRESENTS THE
ER-A420

01/01/2000 12:13AM
000000#0016

#2640 *PGM2*

#2641
01      ENTRY ERROR
02      MISOPERATION
03      NO RECORD
04
05      SECRET CODE
06      NOT FREE
07      MEMORY FULL
08      INSERT SLIP
09      NO AUTHORITY
10      OUT OF STOCK
11      SBTL COMPUL.
12      TEND COMPUL.
13      PB COMPUL.
14
15

93
94      AGE ERROR
95
96
97
98
99
#2643
    
```

# [JOB#2800] : PBLU CODE READING

2800 → [ @/FOR ] → [ CA/AT ]

```

SHARP
PRESENTS THE
ER-A420
SHARP
IS
THE BEST

01/06/2000  9:42PM  0001
000000#0034

#2800 *PGM2*

#2810          0001-1000
    
```

# [JOB#2900] : AUTO KEY PRESET READING

Key operation

2900 → [ @ / FOR ] → [ CA / AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>	
<p>01/06/2000 9:43PM 0001 000000#0035</p>	
<p>#2900 *PGM2*</p>	
#1	----
#2	----
#3	----
#4	----
#5	----

# [JOB#6110] : ONLINE PROGRAMMING READING

Key operation

6110 → [ @ / FOR ] → [ CA / AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>	
<p>01/06/2000 9:43PM 0001 000000#0037</p>	
<p>#6110 *PGM2*</p>	
#6110	
TERMINAL NO.	000001
#6111	
MODEM CONTROL	00
#6112	
TYPE	0
BPS	6
#6113	
START CODE	002
END CODE	013
#6115	
TIME OUT	007
#6220	
PROGRAM	000

# [JOB#2990] : THERMAL PRINTER PRESET REPORT

Key operation

2990 → [ @ / FOR ] → [ CA / AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>	
<p>01/06/2000 9:43PM 0001 000000#0036</p>	
<p>#2990 *PGM2*</p>	
<p>50</p>	
10 :	0123456789ABCDEF
20 :	0123456789ABCDEF
30 :	0123456789ABCDEF
40 :	0123456789ABCDEF
50 :	0123456789ABCDEF
60 :	0123456789ABCDEF
70 :	0123456789ABCDEF
80 :	0123456789ABCDEF
90 :	0123456789ABCDEF

# [JOB#7110] : CAT PROGRAMMING READING REP.

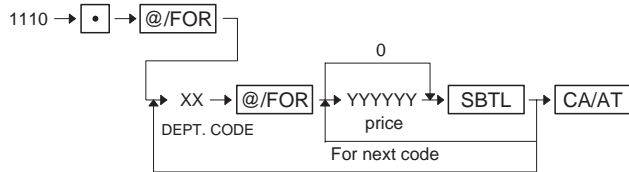
7110 → [ @ / FOR ] → [ CA / AT ]

<p><b>SHARP</b> PRESENTS THE <b>ER-A420</b> <b>SHARP</b> <b>IS</b> <b>THE BEST</b></p>	
<p>01/06/2000 9:43PM 0001 000000#0038</p>	
<p>#7110 *PGM2*</p>	
#7110	
TEL NO.	0
#7111	
PASSWORD	00000000
#7112	
FUNC. SELECT	000
#7113	
TIME OUT1	030
#7114	
TIME OUT2	099
#7115	
TIME OUT3	0099

## 2. PROGRAMMING

### [JOB#1110]

#### PROGRAMMING OF DEPT. PRICE



XX: DEPT-CODE = 01~Max number of DEPT.

YYYYYY: PRICE = 0~999999

If a price is set for a department which amount entry type is "INHIBIT" or "OPEN", its amount entry type is set as below automatically.

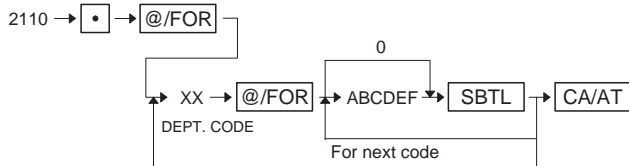
"PRESET" ← "INHIBIT"

"OPEN&PRESET" ← "OPEN"

MRS = 000000

### [JOB#2110]

#### PROGRAMMING OF DEPT. FUNCTIONS



XX: DEPT. code = 01~Max number of DEPT.

A: Item validation printing	A
Non compulsory	0
Compulsory	1

B: Tare table No.	B
Non	0
Table No.	1 to 9

C: Scale entry	C
Inhibit	0
Enable	1
Compulsory	2

D: SICS Function	D
Normal	0
Single item cash sale	1
Single item finalize	2

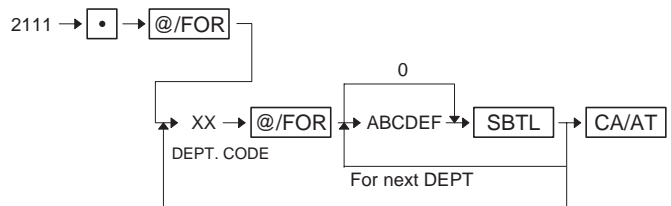
E: Dept. type	E
Normal	0
Hash	1
Bottle Return	2

F: Amount entry type	F
Inhibited	0
Open	1
Preset	2
Open and preset	3

MRS = 000001

### [JOB#2111]

#### DEPT. TAX STATUS PROGRAMMING



XX: DEPT. CODE = 01~Max number of DEPT.

A: Sign	A
+	0
-	1

B: Food stamp	B
Non-food stampable	0
Food stampable	1

C: Taxable 4	C
Non taxable	0
Taxable	1

D: Taxable 3	D
Non taxable	0
Taxable	1

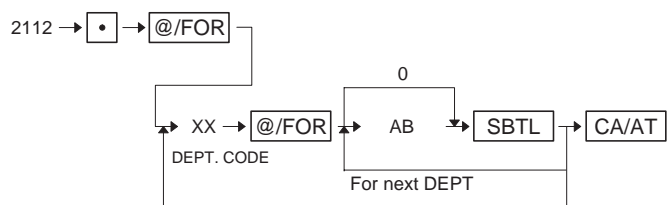
E: Taxable 2	E
Non taxable	0
Taxable	1

F: Taxable 1	F
Non taxable	0
Taxable	1

MRS = 000000

### [JOB#2112]

#### DEPT. HALO (limit) preset



XX: DEPT. CODE = 01~Max number of DEPT.

A: Mantissa (HALO) = 0~9

B: Exponent (HALO) = 0~7

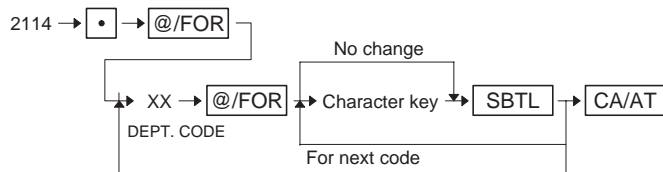
\*Items A and B indicate  $A \times 10^B$ . Any amount below that value is enable within 99999999.

MRS = 17



### [JOB#2114]

#### DEPT. TEXT PROGRAMMING



XX: DEPT. CODE = 01~Max number of DEPT.

Characters: Max. 16Characters

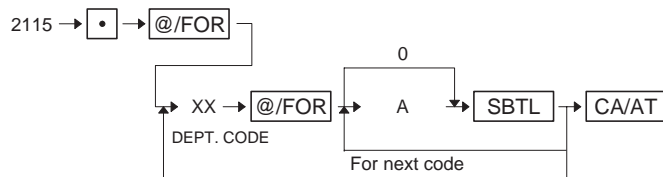
Characters can be entered by using character keys or numeric keys.  
The key entry sequence for entering one character by the numeric keys is as follows.

XXX → 00 KEY    XXX: CHARACTER CODE (3 DIGITS)

MRS = DPT. X\_X\_

### [JOB#2115]

#### COMMISSION GROUP PROGRAMMING



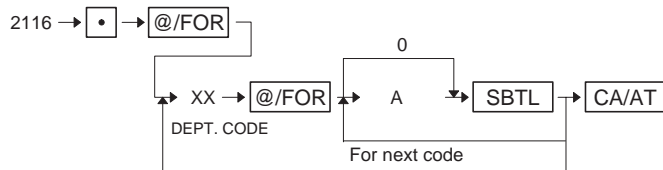
XX: DEPT. CODE = 01~Max number of DEPT.

A: Group No. = 0~9

MRS = 0

### [JOB#2116]

#### PROGRAMMING OF DEPT. GROUPS



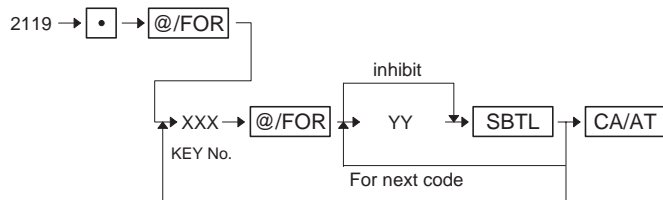
XX: DEPT. code = 01~Max number of DEPT.

A: Group No. = 0 ~ 9

MRS = 0

### [JOB#2119]

#### DIRECT KEY DEFINITION FOR DEPT. KEYS



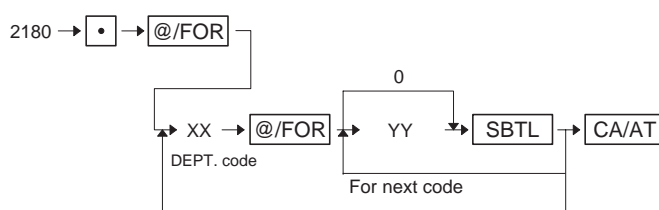
The DEPT. code is assigned to the key no. which has been programmed in the JOB#951 programming.

XXX: Key No.

YY: DEPT. CODE

### [JOB#2180]

#### DEPARTMENT LOWER LIMITATION AGE PROGRAMMING



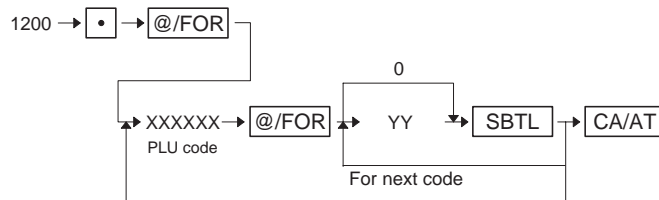
XX: Department code (01 to Max. number of departments.)

YY: Age (00 to 99) 00 = No limitation

MRS = 00

### [JOB#1200]

#### PROGRAMMING OF PLU ITEMS TO BE ASSOCIATED TO DEPARTMENTS.



XXXXXX: PLU code = 1~999999

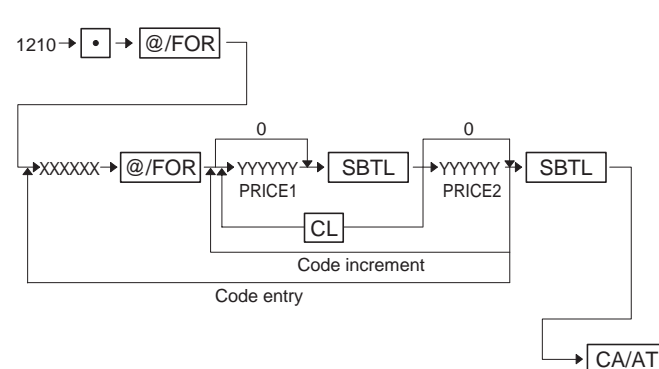
YY: DEPT. code = 01~Max number of DEPT.

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in PLU file.

MRS = 01

### [JOB#1210]

#### PLU UNIT PRICE PROGRAMMING



XXXXXX: PLU CODE = 1~999999

YYYYYY: Amount = 0~999999

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in PLU file.

If a price is set for a department which the amount entry type is "INHIBIT" or "OPEN", the amount entry type is set as below automatically.

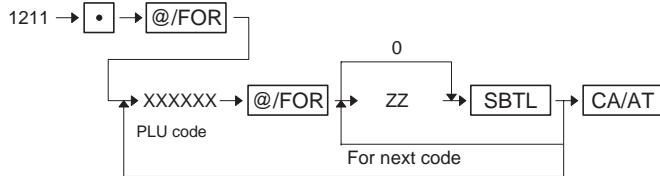
"PRESET" ← "INHIBIT"

"OPEN&PRESET" ← "OPEN"

MRS = 0

### [JOB#1211]

#### PLU BASE Q'TY PROGRAMMING



XXXXXX: PLU code = 1~999999

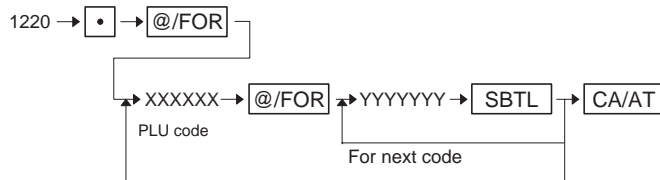
ZZ: Base quantity = 00~99

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = 00

### [JOB#1220]

#### PROGRAMMING PLU STOCK (ADD)



XXXXXX: PLU code (1 to 999999)

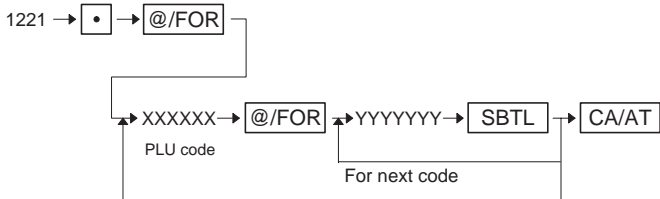
YYYYYYY: STOCK VALUE = 1 to 9999999

The stock value entered is added to the PLU stock counter.

MRS = 0

### [JOB#1221]

#### PROGRAMMING PLU STOCK (SUB)



XXXXXX: PLU code (1 to 999999)

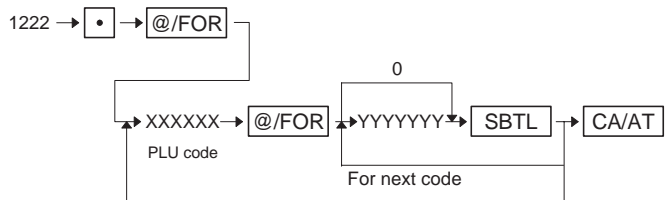
YYYYYYY: STOCK VALUE = 1 to 9999999

The stock value entered is subtracted from the PLU stock counter.

MRS = 0

### [JOB#1222]

#### PROGRAMMING PLU STOCK (OVERWRITE)



XXXXXX: PLU code (1 to 999999)

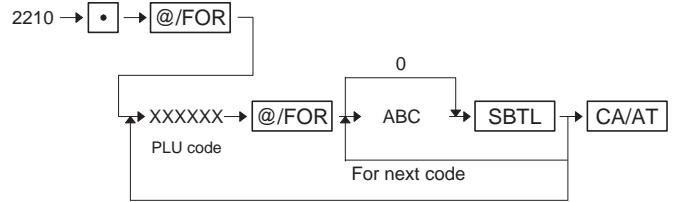
YYYYYYY: STOCK VALUE = 0 to 9999999

The stock value entered is overwrites the PLU stock counter.

MRS = 0

### [JOB#2210]

#### PLU FUNCTION PROGRAMMING



XXXXXX: PLU code = 1~999999

A: Tare table No.	A
Non	0
Table No.	1 to 9

B: Scale entry	B
Inhibited	0
Enable	1
Complusory	2

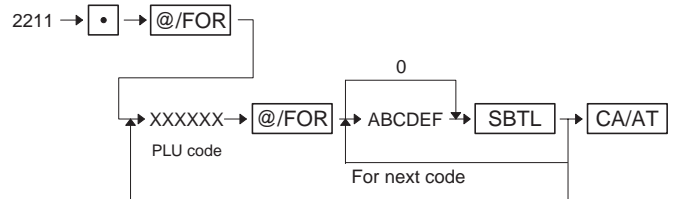
C: Amount entry type	C
Inhibited	0
Open	1
Preset	2
Open and preset	3
Delete	4

If the record of entered the PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = 002

### [JOB#2211]

#### PLU TAX STATUS PROGRAMMING



XXXXXX: PLU code = 1~999999

A: Sign	A
+	0
-	1

B: Food stampable	B
No	0
Yes	1

C: Taxable 4	C
Non taxable	0
Taxable	1

D:	Taxable 3	D
	Non taxable	0
	Taxable	1

E:	Taxable 2	E
	Non taxable	0
	Taxable	1

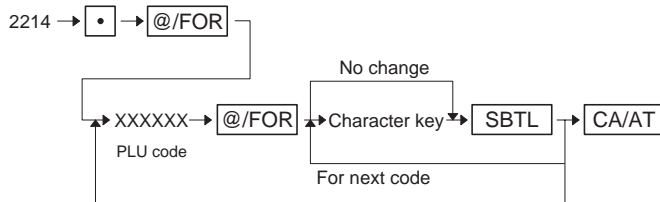
F:	Taxable 1	F
	Non taxable	0
	Taxable	1

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = 000000

#### [JOB#2214]

##### PLU TEXT PROGRAMMING



XXXXXX: PLU code (1 to 999999)

Characters: MAX. 16Characters

Characters can be entered by using character keys or numeric keys. The key entry sequence for entering one character by numeric keys is as follows:

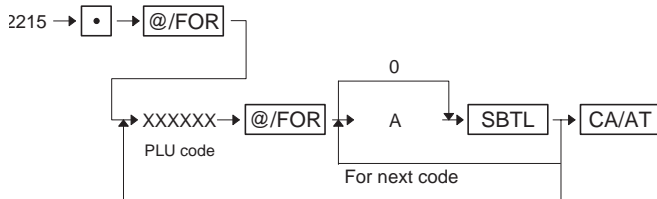
XXX → 00 KEY    XXX: CHARACTER CODE (3 DIGITS)

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = PLXXXXXX

#### [JOB#2215]

##### COMMISSION GROUP PROGRAMMING



XXXXXX: PLU code = 1 ~ 999999

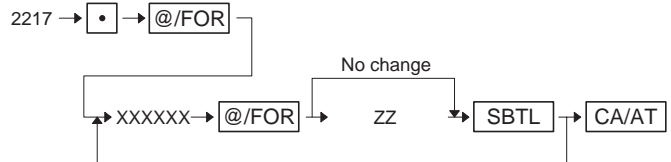
A: Group No. = 0 ~ 9

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = 0

#### [JOB#2217]

##### PLU MIX & MATCH TABLE NO. ASSIGNMENT PROGRAMMING



XXXXXX: PLU code (1 to 999999)

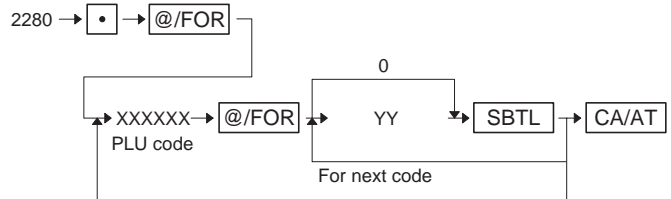
ZZ: Mix & Match table No. (00 to 10)

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

MRS = 00

#### [JOB#2280]

##### PLU LOWER LIMITATION AGE PROGRAMMING



XXXXXX: PLU code (01 to 999999 max.)

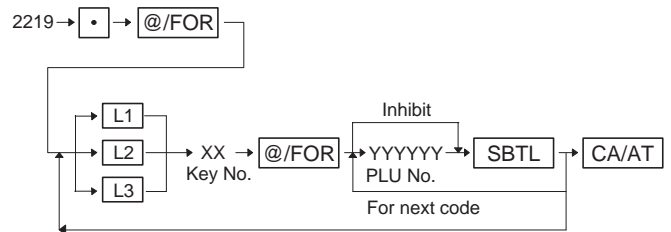
YY: Age (00 to 99) 00 = No Limitation

MRS = 0

If the record of the entered PLU code is not in the PLU file at this programming, the PLU code will be created in the PLU file.

#### [JOB#2219]

##### DIRECT KEY DEFINITION FOR PLU KEYS



\*First time = LEVEL1

The others = Same as previous level

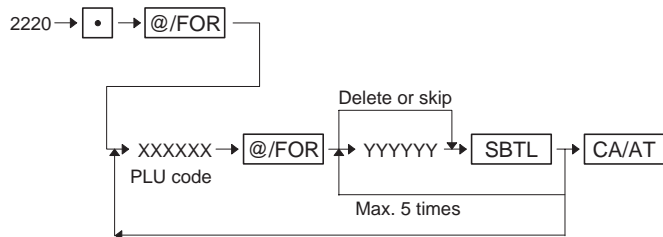
XX: Key No. (Assigned by SRV#951)

YYYYYY: PLU No. (1-999999)

MRS = STANDARD KEY LAYOUT

## [JOB#2220]

### LINKED PLU PROGRAMMING



XXXXXX: PLU code = 1~999999 max.

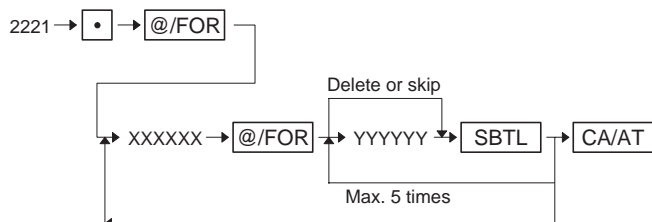
YYYYYY: PLU code = 1~999999 max.

The parent PLU code should already be defined when the code is entered in this programming.

MRS = 0

## [JOB#2221]

### SET PLU PROGRAMMING



XXXXXX: Parent PLU code (1 to 999999 max.)

YYYYYY: Tied PLU code (1 to 999999 max.)

The PLU code should already be defined when the code is entered in this programming.

MRS = 0

#### \*Linked PLU/Set PLU Programming entry:

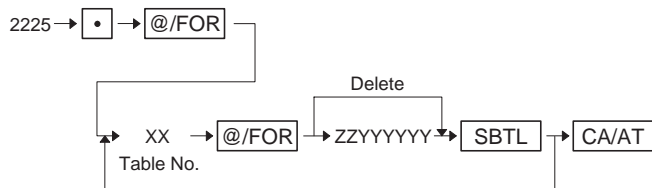
When the "SBTL" key is pressed without entering any number as the first PLU code (YYYYYY), the previous data is cleared.

When the "SBTL" key is pressed without entering any number after the 2nd PLU code (YYYYYY), the programming for the current LINK PLU is finalized and the programming for the next LINK PLU is started.

When the "SBTL" key is pressed after entering the maximum PLU code (YYYYYY), the programming for the current LINK PLU is finalized and the programming for the next LINK PLU is started.

## [JOB#2225]

### MIX & MATCH TABLE PROGRAMMING



XX: Table No. (01 to 10)

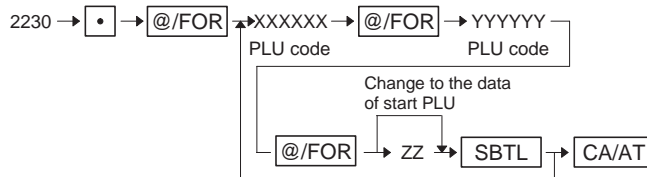
ZZ: Matching count (1 to 99)

YYYYYY: Adjust amount (1 to 999999)

MRS = nothing

## [JOB#2230]

### PLU CODE PROGRAMMING (range)



XXXXXX: Start PLU code = 1~999999

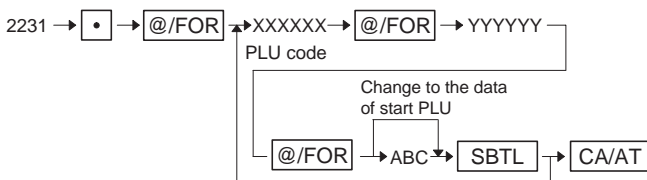
YYYYYY: End PLU code = 1~999999

ZZ: Dept. code = 1~Max number of DEPT.

Only PLU records which exist in the PLU file will change the data in the entered range of PLU codes.

## [JOB#2231]

### PLU FUNCTION PROGRAMMING (range)



XXXXXX: Start PLU code = 1~999999

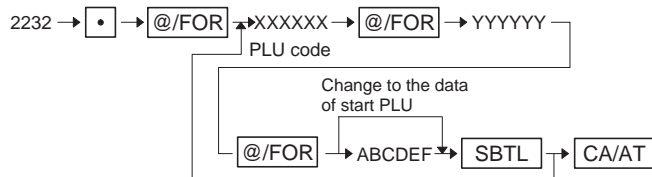
YYYYYY: End PLU code = 1~999999

A: Tare table No.	C
Non	0
Table No.	1 to 9

B: Scale entry	B
Inhibit	0
Enable	1
Compulsory	2

C: Amount entry type	C
Inhibited	0
Open	1
Preset	2
Open and preset	3
Delete	4

This programming job only changes the data of the PLU records that exist within the PLU file prior to entry.

**[JOB#2232]****PLU TAX STATUS PROGRAMMING (RANGE)**

XXXXXX: Start PLU code = 1~999999

YYYYYY: End PLU code = 1~999999

A: Sign	A
+	0
-	1

B: Food stampable	B
No	0
Yes	1

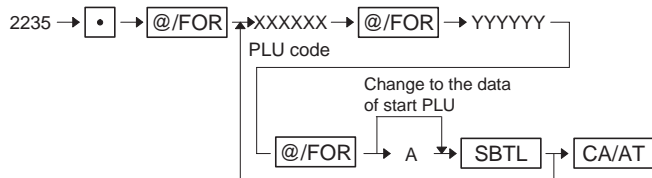
C: Taxable 4	C
Non taxable	0
Taxable	1

D: Taxable 3	D
Non taxable	0
Taxable	1

E: Taxable 2	E
Non taxable	0
Taxable	1

F: Taxable 1	F
Non taxable	0
Taxable	1

This programming job only changes the data of the PLU records that exist within the PLU file prior to entry.

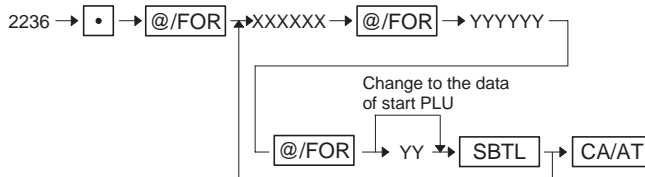
**[JOB#2235]****COMMISSION GROUP PROGRAMMING (RANGE)**

XXXXXX: Start PLU code = 1~999999

YYYYYY: End PLU code = 1~999999

A: Group No. = 0~9

This programming job only changes the data of the PLU records that entered range of PLU code.

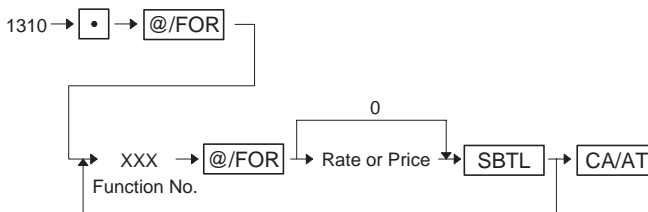
**[JOB#2236]****PLU LOWER LIMITATION AGE PROGRAMMING (RANGE)**

XXXXXX: Start PLU code (1 to 999999)

YYYYYY: End PLU code (1 to 999999)

YY: Age (00 to 99) 00 = No Limitation

This programming job only changes the data of the PLU records that exist within the PLU file prior to entry.

**[JOB#1310]****RATE PROGRAMMING**

XXX: Function No.

(Rate or Price)

YYYYYY: Price for (-)

YYY.YY: Rate for %

YYYY.YYYY: Rate for conversion

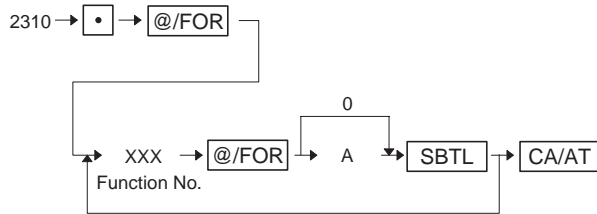
YY.YYY Rate for commission

Function No.	Function	Entry range	Remarks
1	(-) 1	0 to 999999	unit price
2	(-) 2		
3	(-) 3		
4	(-) 4		
5	%1	0 to 100.00	% rate
6	%2		
7	%3		
8	%4		
71	Conversion 1	0 to 9999.9999	Rate
72	Conversion 2		
73	Conversion 3		
109	Commission 1	0 to 999.99	Rate
110	Commission 2		
111	Commission 3		
112	Commission 4		
113	Commission 5		
114	Commission 6		
115	Commission 7		
116	Commission 8		
117	Commission 9		

MRS = 0

# [JOB#2310]

## % FUNCTION PROGRAMMING



X: Function No.

Function No.	Function
5	%1
6	%2
7	%3
8	%4

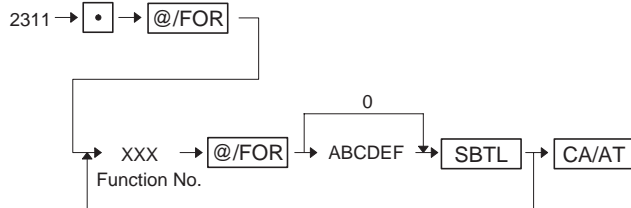
A: Amount entry type

Amount entry type	A
Inhibit	0
Open	1
Preset	2
Open and preset	3

MRS = 3

# [JOB#2311]

## MISCELLANEOUS KEY PROGRAMMING 1



XXX: Function No.

Function No.	Function
1	(-) 1
2	(-) 2
3	(-) 3
4	(-) 4
5	%1
6	%2
7	%3
8	%4

A:

Sign	A
+	0
-	1

B:

Food stampable	B
No	0
Yes	1

C:

Taxable 4	C
Non taxable	0
Taxable	1

D:

Taxable 3	D
Non taxable	0
Taxable	1

E:

Taxable 2	E
Non taxable	0
Taxable	1

F:

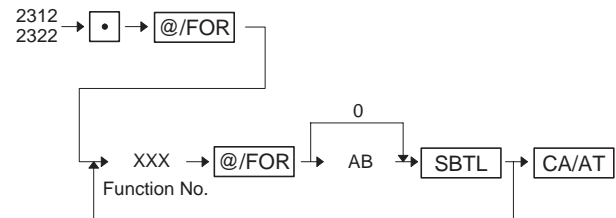
Taxable 1	F
Non taxable	0
Taxable	1

MRS = 100000

# [JOB#2312, 2322]

## HALO PROGRAMMING

(2312: Function key, 2322: Media key)



XXX: Function No.

A: Mantissa (0 to 9)

B: Exponent (0 to 7) for (-) and Tax  
(0 to 8) for RA/PO and each media

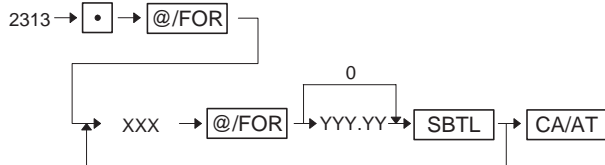
JOB#	Function No.	Function	Remarks
2312	1	(-) 1	Item B is specificable within the range from 0 to 7
	2	(-) 2	
	3	(-) 3	
	4	(-) 4	
	32	MTAX	Item B is specificable within the range from 0 to 8.
	64	RA	
	65	RA2	
	66	PO	
2322	67	PO2	Item B is specificable within the range from 0 to 8.
	61	CA1	
	62	CA2	
	76	CH1	
	78	CH2	
	80	CH3	
	82	CH4	
	84	CH5	
	86	CHK1	
	87	CHK2	

Entry range, system:  $A \times 10^B$

MRS = 17 for (-) and tax  
18 for RA/PO and each media.

# [JOB#2313]

## MISCELLANEOUS KEY PROGRAMMING (% HALO)



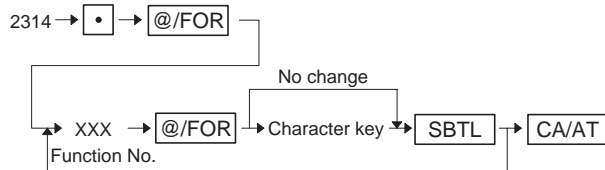
XXX: Function No.

YYY. YY: % HALO (0.00 ~ 100.00)

Function No.	Function
5	%1
6	%2
7	%3
8	%4

# [JOB#2314]

## TEXT PROGRAMMING FOR MISC. KEYS



XXX: Function code

Characters can be entered by using character keys or numeric keys.  
The key sequence for entering one character by numeric keys is as follows:

XXX → 00 key      XXX: CHARACTER CODE (3DIGITS)

Max. 8 Char.

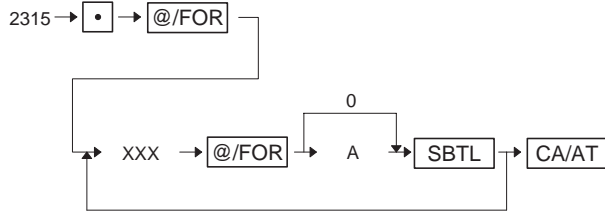
F-NO.	FUNCTION	DEFAULT TEXT 1 2 3 4 5 6 7 8
1	(-) 1	( - ) 1
2	(-) 2	( - ) 2
3	(-) 3	( - ) 3
4	(-) 4	( - ) 4
5	%1	% 1
6	%2	% 2
7	%3	% 3
8	%4	% 4
9	NET1	<b>NET 1</b>
10	TAXABLE1 ST	T A X 1 S T
11	GROSS TAX1	G R S T A X 1
12	REFUND TAX1	R F D T A X 1
13	NET TAX1	T A X 1
14	EXEMPT TAX1	T X 1 E X P T
15	TAXABLE2 ST	T A X 2 S T
16	GROSS TAX2	G R S T A X 2
17	REFUND TAX2	R F D T A X 2
18	NET TAX2	T A X 2
19	EXEMPT TAX2	T X 2 E X P T

F-NO.	FUNCTION	DEFAULT TEXT 1 2 3 4 5 6 7 8
20	TAXABLE3 ST	T A X 3 S T
21	GROSS TAX3	G R S T A X 3
22	REFUND TAX3	R F D T A X 3
23	NET TAX3	T A X 3
24	EXEMPT TAX3	T X 3 E X P T
25	TAXABLE4 ST	T A X 4 S T
26	GROSS TAX4	G R S T A X 4
27	REFUND TAX4	R F D T A X 4
28	NET TAX4	T A X 4
29	EXEMPT TAX4	T X 4 E X P T
30	GROSS M-TAX	G R S M T A X
31	REFUND M-TAX	R F D M T A X
32	NET M-TAX	M - T A X
33	NON GST SUBTOTAL	G S T E X P T
34	PST TOTAL	P S T T T L
35	GST TOTAL	G S T T T L
36	FS1 FORGIVE	F S T X 1
37	FS2 FORGIVE	F S T X 2
38	FS3 FORGIVE	F S T X 3
39	TOTAL TAX (on Report)	T T L T A X
40	NET	<b>NET</b>
41	NET2	<b>NET2</b>
42	COUPON PLU	C P P L U
43	ITEM VOID	V O I D
44	SBTL VOID	S B T L V D
45	MANAGER VOID	M G R V D
46	VOID MODE	<b>VOID</b>
47	REFUND	REFUND
48	HASH VOID	H A S H V D
49	HASH REFUND	H A S H R F
50	NO SALE	N O S A L E
51	VP COUNTER	V P C N T
52	BILL (SLIP) COUNTER	B I L L C N T
53	DRAWER COUNTER	D R W C N T
54	TRAY TOTAL	T R A Y T L
55	PBAL	<b>***PBAL</b>
56	SERVICE	S E R V I C E
57	DEPOSIT	D E P O S I T
58	DEPOSIT REFUND	D P S T R F
59	CUSTOMER (TRANS.COUNT)	T R A N S C T
60	NET3 (SALES)	<b>NET3</b>
61	CASH	<b>CASH</b>
62	CASH2	<b>CASH2</b>
63	FS SALE	F S S A L E
64	RA	<b>***RA</b>
65	RA2	<b>***RA2</b>
66	PO	<b>***PO</b>
67	PO2	<b>***PO2</b>
68	CHECK CASHING	C A / C H K
69	CHECK CHANGE	C H K / C G

F-NO.	FUNCTION	DEFAULT TEXT 1 2 3 4 5 6 7 8
70	FS CHANGE	F S / C G
71	CONVERSION1	CON V 1
72	CONVERSION2	CON V 2
73	CONVERSION3	CON V 3
74	CONVERSION4	CON V 4
75	FS IN DRAWER	F S / I D
76	GROSS CHARGE1	CHARGE 1
77	REFUND CHARGE1	CHARGE 1 –
78	GROSS CHARGE2	CHARGE 2
79	REFUND CHARGE2	CHARGE 2 –
80	GROSS CHARGE3	CHARGE 3
81	REFUND CHARGE3	CHARGE 3 –
82	GROSS CHARGE4	CHARGE 4
83	REFUND CHARGE4	CHARGE 4 –
84	GROSS CHARGE5	CHARGE 5
85	REFUND CHARGE5	CHARGE 5 –
86	CHECK1	CHECK 1
87	CHECK2	CHECK 2
88	CASH/CHECK IN DRAWER	C A / C H I D
89	CASH IN DRAWER	****C I D
90	VAT EXEMPT	V A T E X P T
91	AVERAGE (HOURLY REPORT)	A V E .
92	GROUP1	G R O U P 0 1
93	GROUP2	G R O U P 0 2
94	GROUP3	G R O U P 0 3
95	GROUP4	G R O U P 0 4
96	GROUP5	G R O U P 0 5
97	GROUP6	G R O U P 0 6
98	GROUP7	G R O U P 0 7
99	GROUP8	G R O U P 0 8
100	GROUP9	G R O U P 0 9
101	PRICE 1 for PLU	L E V E L 1
102	PRICE 2 for PLU	L E V E L 2
103	(+) DEPT TOTAL	* D E P T T L
104	(-) DEPT TOTAL	D E P T ( - )
105	HASH (+) DPT TOTAL	* H A S H T L
106	HASH (-) DPT TOTAL	H A S H ( - )
107	BOTTLE (+) TOTAL	* B T T L T L
108	BOTTLE (-) TOTAL	B T T L ( - )
109	COMMISSION SALE1	C O M . S A L 1
110	COMMISSION SALE2	C O M . S A L 2
111	COMMISSION SALE3	C O M . S A L 3
112	COMMISSION SALE4	C O M . S A L 4
113	COMMISSION SALE5	C O M . S A L 5
114	COMMISSION SALE6	C O M . S A L 6
115	COMMISSION SALE7	C O M . S A L 7
116	COMMISSION SALE8	C O M . S A L 8
117	COMMISSION SALE9	C O M . S A L 9
118	NON COMMISSION SALE	N O N C O M .
119	COMMISSION AMOUNT1	C O M . A M T 1

F-NO.	FUNCTION	DEFAULT TEXT 1 2 3 4 5 6 7 8
120	COMMISSION AMOUNT2	C O M . A M T 2
121	COMMISSION AMOUNT3	C O M . A M T 3
122	COMMISSION AMOUNT4	C O M . A M T 4
123	COMMISSION AMOUNT5	C O M . A M T 5
124	COMMISSION AMOUNT6	C O M . A M T 6
125	COMMISSION AMOUNT7	C O M . A M T 7
126	COMMISSION AMOUNT8	C O M . A M T 8
127	COMMISSION AMOUNT9	C O M . A M T 9
128	COMMISSION AMOUNT TOTAL	C O M . T T L
129	CASH/CHECK IS	C A / C H I S
130	CONVERSION1 IS	C O N V 1 I S
131	CONVERSION2 IS	C O N V 2 I S
132	CONVERSION3 IS	C O N V 3 I S
133	CCD DIFFER	C C D D I F .
134	CCD DIFFER TOTAL	D I F . T L
135	SUBTOTAL	S U B T O T A L
136	MDSE SBTL	M D S E S T
137	TOTAL	***TOTAL
138	CHANGE	C H A N G E
139	FS SBTL	F S S T
140	FS TEND	F S T E N D
141	FS CHANGE	F S C G
142	ITEMS	I T E M S
143	DEPT. REPORT TITLE	D E P T
144	GROUP REPORT TITLE	G R O U P
145	PLU REPORT TITLE	P L U
146	STOCK REPORT TITLE	S T O C K
147	ZERO SALES REPORT TITLE	Z E R O S A L
148	PRICE CATEGORY REPORT TITLE	C A T E G O R Y
149	TRANS. REPORT TITLE	T R A N S .
150	CID REPORT TITLE	C I D
151	COMMISSION REPORT TITLE	S A L E S
152	CCD REPORT TITLE	C C D
153	CASHIER REPORT TITLE	C A S H I E R
154	HOURLY REPORT TITLE	H O U R L Y
155	DAILY NET REPORT TITLE	D A I L Y
156	PBLU REPORT TITLE	P B L U
157	NON ADD CODE TEXT (8chara)	#
158	COPY RCPT TITLE	C O P Y
159	FINAL	F I N A L
160	BALANCE	B A L A N C E
161	SLIP PRINT MESSAGE on JOURNAL	S L I P P R .
162	SLIP NEXT PAGE	N E X T P .
163	BALANCE FORWARD	B A L F W D
164	TARE WEIGHT	T A R E W T .
165	DUE (on DISPLAY)	D U E
166	TAX ST (on DISPLAY)	T A X S T
167	AMOUNT (on DISPLAY)	A M O U N T
168	WEIGHT (on DISPLAY)	W E I G H T
169	REFUND TYPE OF SALES (on DISPLAY)	R F S A L E



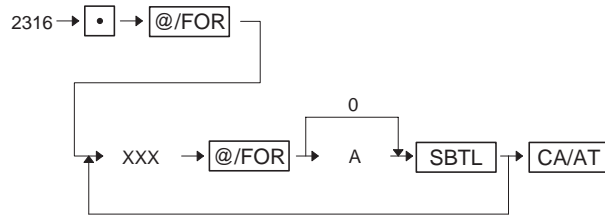
**[JOB#2315]****MISCELLANEOUS KEY PROGRAMMING (%)**

XXX: Function No.

Function No.	Function
5	%1
6	%2
7	%3
8	%4

A: % type	A
Subtotal %	0
Item %	1

MRS = 0

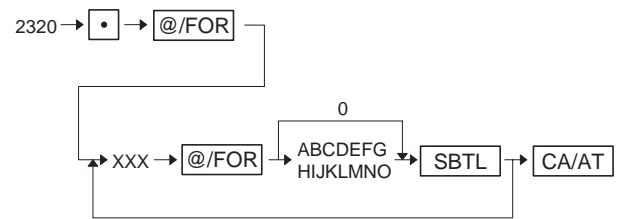
**[JOB#2316]****MISCELLANEOUS KEY PROGRAMMING (-)**

XXX: Function No.

Function No.	Function
1	(-) 1
2	(-) 2
3	(-) 3
4	(-) 4

A: (-) type	A
Subtotal (-)	0
Item (-)	1

MRS = 0

**[JOB#2320]****MEDIA KEY PROGRAMMING**

XXX: Function No.

Function No.	Function	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
61	CA1	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
62	CA2	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
76	CH1	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
78	CH2	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
80	CH3	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
82	CH4	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
84	CH5	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
86	CHK	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
87	CHK2	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
56	SERVICE	x	x	x	x	x	x	x	x	O	x	x	x	x	x	x
63	FS SALE	x	x	x	x	x	x	x	x	O	O	x	x	O	O	x
159	FINAL	x	x	x	x	x	x	x	x	O	x	x	x	x	x	x

\*Items marked with a circle (O) are usable. ((x) means unusable.)

A: CAT	A
Non-compulsory	0
Compulsory	1

B: CAT action	B
POST-AUTH	0
Dial	1

C: CAT type	C
Credit	0
Debit	1
Check	2

D: Card number is printed	D
Yes	0
No	1

E: Card number print format	E
Partial	0
Full	1

F: CAT signature line print	F
Yes	0
No	1

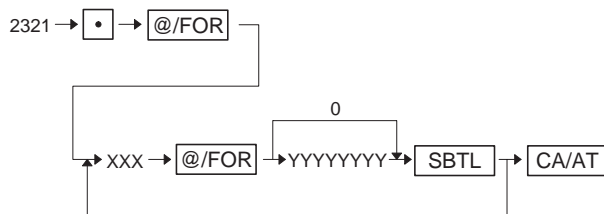
G: CAT expiration printing	G
Yes	0
No	1

H:	Number of CAT authorization receipt	H
	Number	0 to 9
I:	Bill (slip) print	I
	Non-compulsory	0
	Compulsory	1
J:	Footer print on receipt	J
	No	0
	Yes	1
K:	Non-add code entry	K
	Non compulsory	0
	Compulsory	1
L:	Change due	L
	Enable	0
	Disable	1
M:	VP	M
	Noncompulsory	0
	Compulsory	1
N:	Drawer opening	N
	Yes	0
	No	1
O:	Entry of amount tendered	O
	Non compulsory (Cash,Check)	0
	Inhibit (Credit)	
	Compulsory	1

MRS=0000000000000000

### [JOB#2321]

#### MEDIA KEY FUNCTION PROGRAM (AMOUNT HALO)



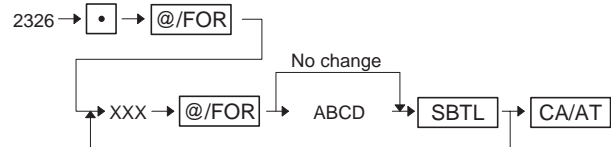
XXX: Function No.

YYYYYYYY: Limitation amount

Func. No.	Function	Entry range	MRS
68	CA/CHK	0 to 99999999	99999999
89	CID (Sentinel)	0 to 999999999	999999999
69	CHK CHANGE	0 to 99999999	99999999

### [JOB#2326]

#### MEDIA KEY PROGRAMMING-2

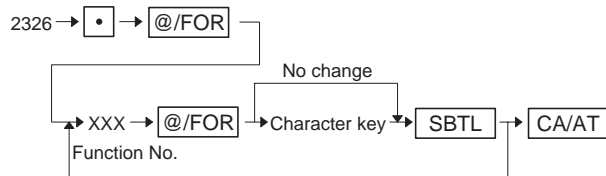


XXX: Function No.

Function No.	Function
61	CA1
62	CA2
76	CH1
78	CH2
80	CH3
82	CH4
84	CH5
86	CHK
87	CHK2

### [JOB#2334]

#### CURRENCY SYMBOL PROGRAMMING FOR EXCHANGE KEYS



XXX: Function No.

Function No.	Function	Range
71	Conversion 1	4 characters
72	Conversion 2	
73	Conversion 3	
74	Conversion 4	

A character can be entered by using character keys or numeric keys.

The key sequence for entering one character by numeric keys is as follows:

XXX → 00 KEY      XXX: Character code (3 digits)

MRS = "space"

This symbol is printed when the foreign currency amount is positive. The programmed characters are printed at left side of amount.

Ex) Case of " US\$":

CONV1	1.234567
	US\$1.23
	Programmed symbol

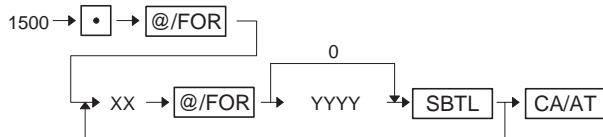
If some space characters are programmed at the left side of symbol (like " \$"), they are not counted as the characters when the currency symbol is printed. (In case of " US\$")

Ex) Case of " US\$": (The currency symbol means "DM")

DEPARTMENT01	US\$10000.00
--------------	--------------

## [JOB#1500]

### CASHIER CODE DEFINITION



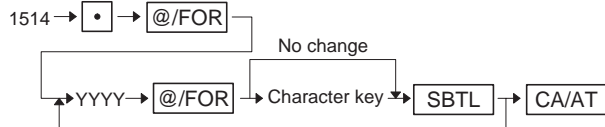
XX: Cashier No.= 1~20

YY: Cashier code = 1~9999

MRS = Same code as cashier No.

## [JOB#1514]

### CASHIER NAME PROGRAMMING



YYYY: Cashier code = 1~9999

Characters can be entered by using character keys or numeric keys. The key sequence for entering one character by numeric keys is as follows:

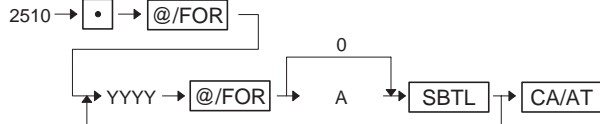
XXX → 00 KEY      XXX: Character code (3 digits)

Max. 8 characters

MRS = 'Space'

## [JOB#2510]

### CASHIER DRAWER NO. ASSIGNMENT



YYYY: Cashier code = 1~9999

A:	Drawer No.	A
	Not open	0
	Drawer 1	1
	Drawer 2	2

MRS = 1

## [JOB#2610]

### DATE SETTING



XXXXXXXX: YYYYMMDD or DDMMYYYY or MMDDYYYY

(YYYY: 2000~2099)

(MM: 01~12)

(DD: 01~31)

The date entry format must comply with the applicable SRV-mode (SRV#912-A) setting.

MRS = 01/01/2000

(DDMMYYYY)

## [JOB#2611]

### TIME SETTING



XX: Hour (00~23)

YY: Minute (00~59)

The date entry does not comply with the SRV#912-B setting.

MRS = 00:00

## [JOB#2612]

### MACHINE NUMBER SETTING



XXXXXX: Machine number (0~999999)

MRS = 000000

## [JOB#2613]

### CONSECUTIVE NUMBER SETTING

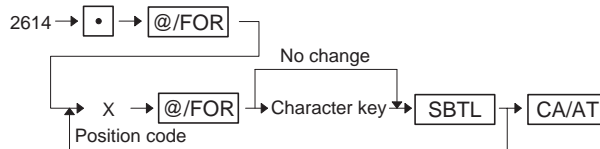


XXXX: Consecutive number (0000~9999)

MRS = 0000

## [JOB#2614]

### LOGO TEXT PROGRAMMING



X: 1~6:	1	(24 char.)
	2	(24 char.)
	3	(24 char.)
	4	(24 char.)
	5	(24 char.)
	6	(24 char.)

(1 Block max. 24 char.)

Character can be entered by using character keys or numeric keys.

The key sequence for entering one character by numeric keys is as follows:

XXX → 00 Key      XXX: Character code (3 digits)

(ER-A410)

(ER-A420)

Default =

**SHARP  
PRESENTS THE  
ER-A410  
SHARP  
IS  
THE BEST**

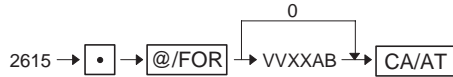
**SHARP  
PRESENTS THE  
ER-A420  
SHARP  
IS  
THE BEST**

Note: This programming is related to the JOB# 912-D setting.  
The programable line has the below relations based on the selection made in JOB# 912-D.

- "6-line header": All 6 lines are programmable.  
"3-line header": Upper 3 lines (1st-3rd line) are programmable.  
"3-line footer": Lower 3 lines (4th-6th line) are programmable.  
"Graphical LOGO only": No lines are programmable.

#### [JOB#2615]

PROGRAMMING LIMITATION OF VALIDATION PRINTING AND  
THE NO. OF LINE FEED AFTER PRINTING TRAY ST.



VV: INITIAL SLIP FEED LINE = 0 to 64

XX: SLIP PRINT MAX LINE NO. = 0 to 99

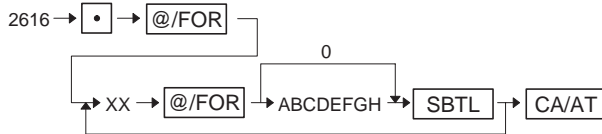
A: No. of times validation printing is enforced = 0 to 9

B: No. of feed lines after the depression of Tray ST key = 0 to 9

MRS = 009910

#### [JOB#2616]

OPTIONAL FEATURES



XX: 1

MRS = 00000000

A:	OP X/Z report	A
	Enable	0
	Disable	1

B:	PO operation in REG mode	B
	Enable	0
	Disable	1

C:	Refund type of sale function in REG mode	C
	Enable	0
	Disable	1

D:	"RFND" key entry in REG mode	D
	Enable	0
	Disable	1

E:	Direct void function in REG mode	E
	Enable	0
	Disable	1

F:	Indirect void in REG mode	F
	Enable	0
	Disable	1

G:	Subtotal void in REG mode	G
	Enable	0
	Disable	1

H:	Refund VP	H
	Non compulsory	0
	Compulsory	1

XX: 2

MRS = 00000000

A:	The first last item void	A
	Enable	0
	Disable	1

B:	PLU SHIFT LEVEL reset	B
	Auto	0
	Manual	1

C:	PLU LEVEL SHIFT	C
	REG & MGR	0
	MGR only	1

D:	Printing of the number of items	D
	No	0
	Yes	1

E:	Time print	E
	Yes	0
	No	1

F:	Printing of journal	F
	Full print	0
	Journal select	1

G:	Item VP	G
	Enable	0
	Disable	1

H	(-) VP	H
	Non compulsory	0
	Compulsory	1

XX: 3

MRS = 00000000

A, B: Not used (Fixed at "00")

C:	Zero skip in Cashier report	C
	Yes	0
	No	1

D:	Zero skip in Transaction report	D
	Yes	0
	No	1

E:	Zero skip in Dept. report	E
	Yes	0
	No	1

F:	Zero skip in PLU report	F
	Yes	0
	No	1

G:	Zero skip in Hourly report	G
	Yes	0
	No	1

H:	Zero skip in Daily net report	H
	Yes	0
	No	1

XX: 4 MRS = 00000000

A, B, C, D, E, F, G: Not used (Fixed at "0000000")

H:	PLU SHIFT LEVEL AUTO reset timing. (Available when "X = 2, B = 0: PLU SHIFT LEVEL reset = AUTO")	H
	1 item	0
	1 receipt	1

XX: 5 MRS = 00000000

A, B, C, D, E: Not used (Fixed at "00000")

F:	PLU PRICE SHIFT	F
	REG & MGR	0
	MGR only	1

G:	PLU PRICE LEVEL reset	G
	Auto	0
	Manual	1

H:	PLU PRICE LEVEL auto reset timing (Available when "PLU PRICE LEVEL reset =AUTO")	H
	1 item	0
	1 receipt	1

XX: 6 MRS = 00000000

A, B, C, D, E, F, G: Not used (Fixed at "0000000")

XX: 7 MRS = 00000000

A, B: Not used (Fixed at "00")

C:	No sale in REG mode	C
	Enable	0
	Disable	1

D:	Finalization in REG mode when ST is zero	D
	Enable	0
	Disable	1

E:	Printing of item in PBLU transaction on SLIP	E
	Yes	0
	No	1

F, G, H: Not used (Fixed at "0000")

XX: 8

MRS = 00000000

A, B, C: Not used (Fixed at "000")

D:	Entry of RA and RA2 key	D
	Always	0
	PBLU only	1

E:	Check cashing VP	E
	Non-compulsory	0
	Compulsory	1

F:	RA VP	F
	Non-compulsory	0
	Compulsory	1

G:	PO VP	G
	Non-compulsory	0
	Compulsory	1

H: Not used (Fixed at "0")

XX: 9

MRS = 00000000

A, B: Not used (Fixed at "00")

C:	Birthday print on printer	C
	Yes	0
	No	1

D, E, F, G: Not used (Fixed at "0000")

H:	Footer graphic LOGO printing at the end of receipt	H
	No	0
	Yes	1

XX: 10

MRS = 00000000

A, B, C, D, E, F, G, H: Not used (Fixed at "0000000")

XX: 11

MRS = 00000000

A, B, C, D, E, F, G, H: Not used (Fixed at "0000000")

XX: 12

MRS = 00000000

A, B, C, D, E, F, G, H: Not used (Fixed at "0000000")

XX: 13

MRS = 00000000

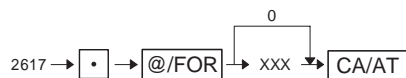
A, B, C: Not used (Fixed at "000")

D:	Printing of price shift text on the receipt/journal	D
	Yes	0
	No	1

E, F, G, H: Not used (Fixed at "0000")

## [JOB#2617]

### PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER

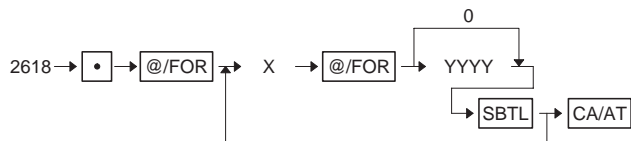


XXX: 0 ~ 255 sec

MRS = 000

## [JOB#2618]

### SCALE TABLE PROGRAMMING



X: Table No. = 1 - 9

YYYY: Weight = 0 - 99.99 (Enter without decimal point.)

MRS = 0.00

## [JOB#2619]

### HOURLY REPORT (Starting time)



A:

Memory format	A
30 minutes (24 hour)	0
60 minutes (24 hour)	1

BB: Starting time (hour): 00~23

MRS = 000

ex)



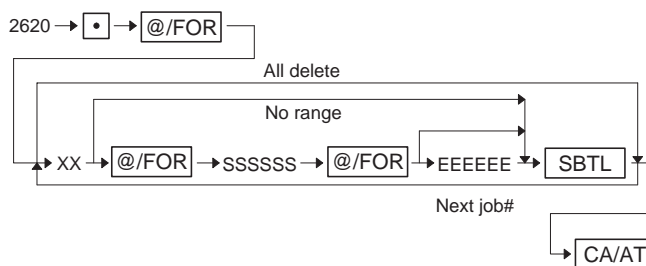
X1 Hourly report (#160) (30 min, start time = 7)

#160
7:00
(DATA)
7:30
(DATA)
SUBTOTAL
(DATA)
23:30
(DATA)
SUBTOTAL
(DATA)
0:00
(DATA)
0:30
(DATA)
SUBTOTAL
(DATA)
6:30
(DATA)
SUBTOTAL
(DATA)

24 hours started  
from 7:00

## [JOB#2620]

### STACK REPORT



XX: JOB#

SSSSSS: Start code

EEEEEE: End code

JOB#	REPORT NAME	TYPE
00	General	
10	DEPT.	
13	DEPT. All group	
20	PLU	RANGE
24	PLU stock	RANGE
27	PLU zero sales	
29	PLU category	RANGE
30	Transaction	
31	CID	
32	Commission sales	
50	All cashier	
60	Hourly	ALL RANGE (only X report)
70	Daily net	
80	PBLU	RANGE

[\*\*]

The maximum of 70 steps are programmable. "1 step" means the memory size used for one no range type JOB#.

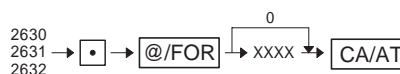
The RANGE type JOB# means "8 steps".

For example)

The memory size for programming JOB#00, 20 and 50 is 10 steps.  
(ie. 1 step for JOB#00, 8 step for JOB#20, and 1 step for JOB#50.)

## [JOB#2630, 2631, 2632]

### SECRET CODE PROGRAMMING



#2630: PGM1 mode

#2631: X1/Z1 mode

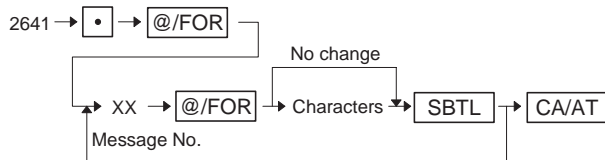
#2632: X2/Z2 mode

\* If "0" is entered, "compulsory secret code entry" is not enabled.

MRS = 0

## [JOB#2641]

### MESSAGE TEXT PROGRAMMING



XX: Message No. = 1 to 99

Messages are 12 CHARACTERS

No.	Description	MRS
1	Registration error	ENTRY ERROR
2	Misoperation error	MISOPERATION
3	Desired code is not programmed yet.	NO RECORD
4	(Reserved)	
5	Secret code error	SECRET CODE
6	Code is not free	NOT FREE
7	Memory is full	MEMORY FULL
8	Insert slip paper	INSERT SLIP
9	The cashier has entered a code for which he or she is not authorized.	NO AUTHORITY
10	Stock is empty	OUT OF STOCK
11	Compulsory of pushing the SBTL key	SBTL COMPUL.
12	Compulsory of tendering	TEND COMPUL.
13	PBLU entry compulsory	PB COMPUL.

No.14~21 are all reserved.

No.	Description	MRS
22	(Reserved)	
23	Cashier resetting over error	ENTRY ERR CA
24	(Reserved)	
25	(Reserved)	
26	(Reserved)	
27	Power off	POWER OFF
28	(Reserved)	
29	(Reserved)	
30	(Reserved)	
31	Compulsory of non-add code entry	# COMPULSORY
32	The cashier key is not assigned.	NOT ASSIGNED
33	(Reserved)	
34	Overflow limitation	OVER LIMIT.
35	The open price entry is inhibited.	INH. OPEN PR
36	The unit price entry is inhibited	INH. UNIT PR
37	The direct non-tendering finalization after previous tender entry is inhibited.	NOT NON-TEND
38	Read error of scale	SCALE ERROR

No.39~50 are all reserved.

No.	Description	MRS
51	Weight on scale	WEIGHT
52	(Reserved)	
53	(Reserved)	
54	Entry tare weight	ENTR TARE WT

No.55~66 are all reserved.

No.	Description	MRS
67	REG buffer full	BUFFER FULL

No.68~75 are all reserved.

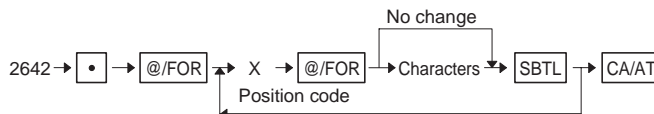
No.	Description	MRS
76	Close drawer error	CLOSE DRAWER

No.77~80 are all reserved.

No.	Description	MRS
81	Enter secret code	ENTR SECRET#
82	(Reserved)	
83	(Reserved)	
84	DATA BACKUP send success	SEND OK
85	DATA BACKUP receive success	RECEIVE OK
86	DATA BACKUP communication error	COM. ERROR
87	DATA BACKUP data format error	DATA ERROR
88	DATA BACKUP timeout error	TIME OUT
89	(Reserved)	
90	(Reserved)	
91	(Reserved)	
92	(Reserved)	
93	(Reserved)	
94	Age verification error	AGE ERROR

## [JOB#2642]

### VP TEXT PROGRAMMING



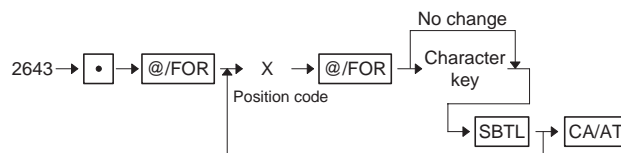
X: Position code = 1 to 3

1 BLOCK MAX. 24 CHARACTERS

MRS = " " " "  
 " " " "  
 "FOR DEPOSIT ONLY"

## [JOB#2643]

### SLIP TEXT PROGRAMMING



X: Position code = 1 to 3

1 BLOCK MAX. 24 CHARACTERS

MRS = "SPACE"  
 "SPACE"  
 "SPACE"

## [JOB#2689]

### POWER SAVING PROGRAMMING

2689 → [•] → [ @/FOR ] → XYYY → [ CA/AT ]

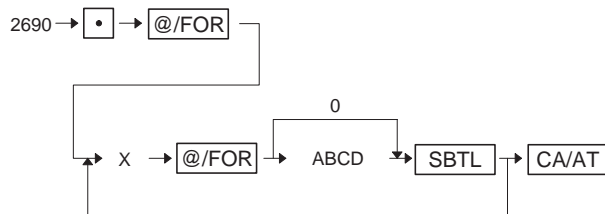
X:	POWER SAVING function when a time is displayed	X
	Yes	0
	No	1

YYY: POWER SAVING TIME to POWER OFF = 001-254 (minutes)  
or 999 (Inhibit)

MRS = 0030

## [JOB#2690]

### THE ASSIGNMENT OF RS232 FUNCTIONS BY EACH DEVICE



X: 1

MRS = 0000

A:	Channel No. for on-line or print data sending	A
	Not connect	0
	RS port 1	1
	RS port 2	2

B: Not used (Fixed at "0")

C:	Channel No. for SCALE	C
	No	0
	Channel No.	1 or 2

D:	Channel No. for coin dispenser	D
	No	0
	Channel No.	1 or 2

X: 2 Not used (Fixed at "0000")

MRS = 0000

X: 3

MRS = 0000

A: Not used (Fixed at "0")

B:	Channel No. for slip printer	B
	Not connect	0
	RS port 1	1
	RS port 2	2

C: Not used (Fixed at "0")

D:	Channel No. for CAT	D
	No	0
	Channel No.	1 or 2

\* EFT FUNCTION always uses RS port 2.

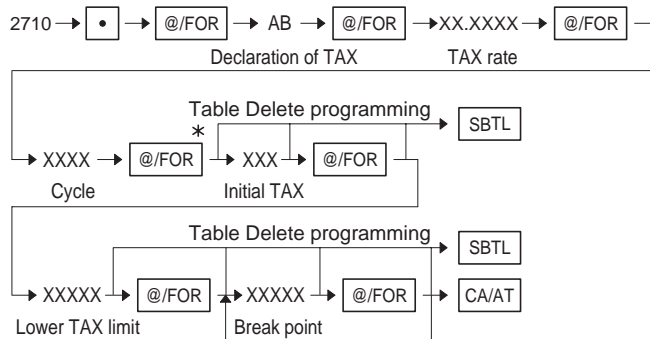
(Note: When the ER-03EF is connected, RS port 2 cannot be used for other purposes.)

\*DATA BACK UP FUNCTION always uses RS port 1.

(Note: If RS port 1 is not used by DATA BACKUP FUNCTION, it is available for other RS functions by setup.)

## [JOB#2710]

### TAX TABLE PROGRAMMING



72 BREAKPOINTS CAN BE PROGRAMMED FOR EACH TAX TABLE.

(When the interval between break point is 1 dollar or more and less than 100 dollar, 36 breakpoints is programmed for each table.)

\*DEPRESSION OF THE SBTL KEY AT THE FOLLOWING POINTS WILL RESULT IN A TAX TABLE DELETE OPERATION.

A: INTERVAL BETWEEN BREAKPOINTS IS 1 DOLLAR OR = 1 MORE AND LESS THAN 100 DOLLAR  
INTERVAL BETWEEN BREAKPOINTS IS BELOW 1 DOL- = 0 LAR

B: TABLE 1 PROGRAMMING = 1  
TABLE 2 PROGRAMMING = 2  
TABLE 3 PROGRAMMING = 3  
TABLE 4 PROGRAMMING = 4

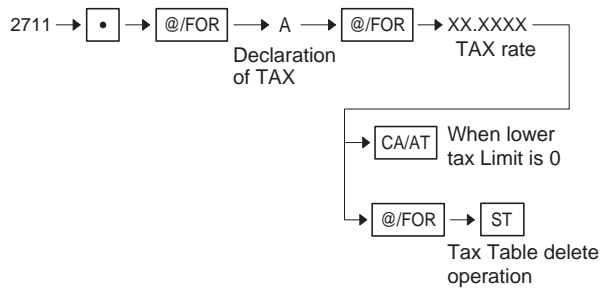
TAX RATE : 0.0001-99.9999  
CYCLE : 0-9999  
INITIAL TAX : 0-999  
LOWER TAX LIMIT : 0-99999  
BREAK POINT : 0-99999

MRS = NO TAX



## [JOB#2711]

### TAX RATE PROGRAMMING



A: TAX 1 PROGRAMMING = 1  
 TAX 2 PROGRAMMING = 2  
 TAX 3 PROGRAMMING = 3  
 TAX 4 PROGRAMMING = 4

X: % TAX RATE & SIGN	X
+	0
-	1

XXX.XXXX: RATE = 0.0000 to 99.9999 %

ZZZZ: LOWER TAX LIMIT = 0.00 to 999.99

(This invalid in VAT system.)

MRS = DELETE

## [JOB#2715]

### QUANTITY FOR DOUGHNUT EXEMPT (For Canadian TAX)

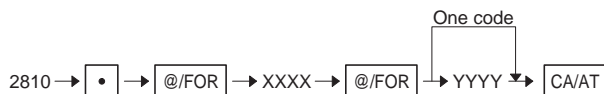


XX: Quantity for doughnut TAX exempt = 0-99

MRS = 0

## [JOB#2810]

### PBLU code (The range programming of available PBLU codes)



XXXX: Start code = 1-9999

YYYY: End code = 1-9999

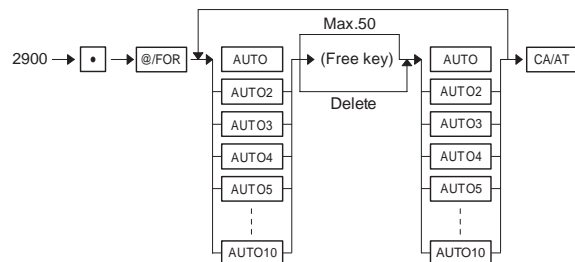
MRS = 0001 (Start code)/1000 (End code)

## [JOB#2900]

### <CAUTION>

(This JOB must be performed at the X2/Z2 mode position.)

### AUTO - AUTO5 KEY SETTING



(Auto key function)

- This machine has up to 5 [AUTO] keys which can be programmed by the following key-sequence.
- When the [AUTO] key is depressed, the machine works the same as the programmed key-sequence programmed.

<Example>

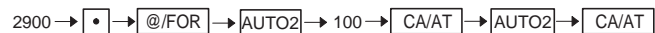
(X2/Z2)



(REG)

Key entry	R/J	Display	Comment
[AUTO]	PL000001 *1.10	PL0000001 1.10	same as [PLU1] entry
		1	same as [1] entry
		10	same as [0] entry
		100	same as [0] entry
	DEPT02 *1.00	DEPT02 1.00	same as [DEPT2] entry

(X2/Z2)

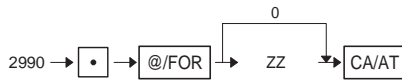


(REG)

Key entry	R/J	Display	Comment
[DEPT 1]	DEPT01 *1.00	DEPT01 1.00	
[AUTO 2]		1	same as [1] entry
		10	same as [0] entry
		100	same as [0] entry
	***TOTAL *1.00	CHANGE 0.00	same as [CA/AT] entry
	CASH *1.00		
	CHANGE *0.00		

**[JOB#2990]**

## THERMAL PRINTER PROGRAMMING



ZZ: Selection of light and shade	ZZ
Lighter than standard	00
Standard (90% for printer standard)	50
Darker than standard	99

MRS = 50

**[JOB#6110]**

## RS-232C TERMINAL No.



XXXXXX: Terminal number (0 to 999999)

MRS = 000001

**[JOB#6111]**

## RS-232C TRANSMISSION



A: Sending of CI signal	A
No	0
Yes	1

B: Transmission line form	B
Full duplex system	0
Half duplex system	1

MRS = 00

**[JOB#6112]**

## RS-232C FUNCTION SELECTING



A: Print data	A
Data download and upload	0
Print data send	1

B: RS-232C Baud rate	B
4800bps	4
9600bps	5
19200bps	6
38400bps	7

(\*) Data value "3/2/1/0" is reserved.

Note: The value of the baud rate is used for the Online communication and Print data functions.

It is not used for the Data back up function (SRV#996, SRV#998).

MRS = 06

**[JOB#6113]**

## RS-232C PROGRAMMING



XXX: Start code (000-127)

YYY: End code (000-127)

MRS = 002013

**[JOB#6115]**

## RS-232C TIME OUT



XXX: Time out time (1-255 sec)

MRS = 007

**[JOB#6220]**

## PRINT DATA SENDING



A: Sending of DR signal	A
Yes	0
No	1

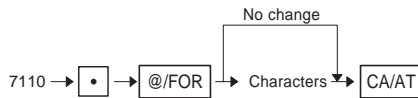
B: Sending of CS signal	B
Yes	0
No	1

C: Sending of all print data	C
Disable	0
Enable	1

MRS = 000

## [JOB#7110]

### CAT DIAL OUT PHONE NUMBER PROGRAMMING



(CHARACTERS): CHARACTER (Max. 25 Characters)

Characters can be entered by using the character layout on keyboard or by using the numeric keys on keyboard.

THE KEY ENTRY SEQUENCE FOR ENTERING ONE CHARACTER BY NUMERIC KEYS IS AS FOLLOWS:

YYY→ [00] KEY YYY: CHARACTER CODE (3 DIGITS)  
(or [000] KEY ACCORDING TO PGM PRESET)

MRS = 0 \_\_\_\_\_ (.: space code)

Note: Any character can be set as text.

Valid characters for dialing are "0" to "9", "W" and ".,".

The text setting of invalid characters (like "space") are ignored when dialing.

Example: "0123, 45, 6789\_\_123\_\_\_\_\_" → Dial = "0123, 45, 6789"

"0123, 45xx789 \_\_\_\_\_" → Dial = "0123, 45"

## [JOB#7111]

### CAT PASSWORD for DIAL OUT



XXXXXXXX: Password (TEL ID) 8 digits (00000000-99999999)

Note:

- This data can be programmed with zero suppress.  
This may also be used without zero suppress for dialing.
- "PHONE NUMBER for DIAL OUT" is "TEXT" programming [JOB#7110].

MRS = 00000000

## [JOB#7112]

### CAT FUNCTION SELECTING



A:	PIN PAD on CAT for DEBIT CARD	A
	YES	0
	NO	1

B:	KEY TYPE for PIN PAD	B
	STATIC	0
	DUKPT	1
	INDEX	2

C:	DIAL MODE for DIAL OUT	C
	TONE	0
	PULSE	1

MRS = 000

## [JOB#7113]

### CAT TIME OUT1 (for reading of Card [Credit, Debit card])



XXX: Time out time (1-255 sec)

MRS = 030

## [JOB#7114]

### CAT TIME OUT2 (for response of Authorization)

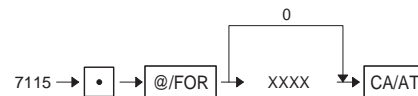


XXX: Time out time (1-255 sec)

MRS = 099

## [JOB#7115]

### CAT TIME OUT3 (for reading of Dial in/out)



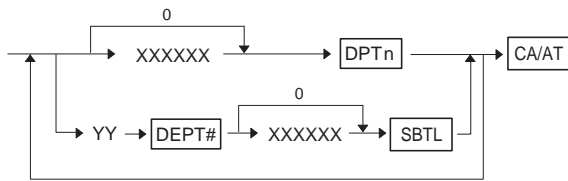
XXX: Time out time (1-3000 sec)

MRS = 0099

Note: JOB#7117, JOB#7118 and JOB#7119 are used by "CAT COMMUNICATIONS" (Executing JOB).

### 3. PROGRAMMING BY DIRECT KEY

#### 1) DEPT UNIT PRICE MODE: PGM1, PGM2



YY: Department Code (01-99)

XXXXXX: Unit price (Max. 6 digits)

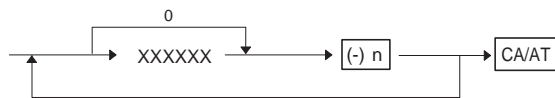
If a price is set for a department which the amount entry type is "INHIBIT" or "OPEN", the amount entry type is changed automatically as indicated below.

"INHIBIT" → "PRESET"

"OPEN" → "OPEN & PRESET"

MRS = 0

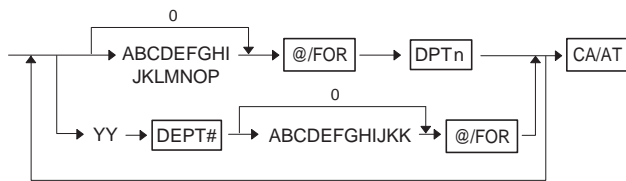
#### 2) (-) PRESET AMOUNT MODE: PGM1, PGM2



XXXXXX: Unit price (Max. 6 digits)

MRS = 0

#### 3) DEPT FUNCTION PROGRAMMING MODE: PGM2



YY: Department code (01-99)

A: Group No. = 0 to 9

B: Commission group = 0 to 9

C: Sign	C
+	0
-	1

D: Food stampable	D
No	0
Yes	1

E: Taxable 4	E
No	0
Yes	1

F: Taxable 3	F
No	0
Yes	1

G: Taxable 2	G
No	0
Yes	1

H: Taxable 1	H
No	0
Yes	1

I: ITEM VP	I
Non-compulsory	0
Compulsory	1

J: Tare table No. = 9 to 1, 0

K: Scale entry	K
Inhibit	0
Enable	1
Compulsory	2

L: REGISTRATION TYPE	L
NORMAL	0
SICS	1
SIF	2

M: Bottle return	M
NORMAL	0
HASH	1
Bottle return	2

N: AMOUNT ENTRY TYPE	N
Inhibit	0
Open only	1
Preset only	2
Open & Preset	3

O: HALO Mantissa = 0 to 9

P: HALO Exponent = 0 to 7

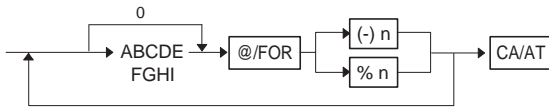
H and I indicate  $A \times 10^B$

Except the value A and B, any amount over 9999999 can not be entered.

MRS = 000100118001

(TAXABLE 1, VP Non-compulsory, NORMAL, Open only, HALO = 17, Commission =0, Group =01)

#### 4) (-) & % KEY FUNCTION PROGRAMMING MODE: PGM2



A:	Amount entry type	A
	Inhibited	0
	Open	1
	Preset	2
	Open and preset	3

B:	Food stamp	B
	Non-food stampable	0
	Food stampable	1

C:	Taxable4	C
	Non taxable	0
	Taxable	1

D:	Taxable3	D
	Non taxable	0
	Taxable	1

E:	Taxable2	E
	Non taxable	0
	Taxable	1

F:	Taxable1	F
	Non taxable	0
	Taxable	1

G:	SIGN	G
	+	0
	-	1

H:	ITEM / SBTL (-) / %	H
	ITEM (-) / %	0
	SBTL (-) / %	1

I: HALO Mantissa (for (-) key) = 0 to 9 (0 FIXED for [%n] )

J: HALO Exponent (for (-) key) = 0 to 7 (0 FIXED for [%n] )

H & I indicate  $C \times 10^D$

Except the value C and D, any amount over 9999999 can not be entered.

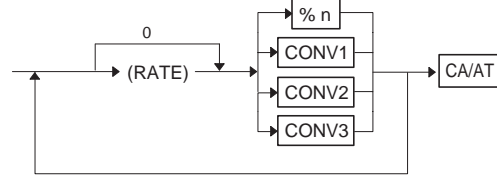
HALO = 00: OPEN PRICE REGISTRATION INHIBIT (for [(-) n].

MRS = 0000001017 for [(-) n]

(MINUS SIGN, SBTL (-), HALO =9999999)

3000001000 for [%n] (MINUS SIGN, SBTL%)

#### 5) RATE PROGRAMMING FOR % AND CONVERSION KEY MODE: PGM1, PGM2



(RATE): XXX.XX: Rate for % (0.00-100.00)

XXXX.XXXX: Rate for CONVERSION (0.0000-9999.9999)

The DECIMAL POINT must be entered for setting the decimal digits.

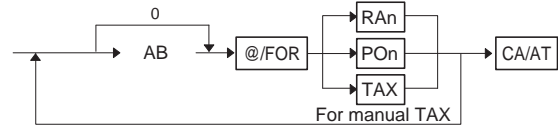
MRS = 0.00 (%n)

0.0000 (CONVn) (n=1-3)

Note: This programming is invalid for [CONV4] key.

The [CONV1], [CONV2] and [CONV3] keys are used only for PRESET RATE REGISTRATION but the [CONV4] is used only for OPEN RATE REGISTRATION.

#### 6) PROGRAMMING FOR RA/PO KEYS MODE: PGM2



A: HALO Mantissa = 0 to 9

B: HALO Exponent = 0 to 9 (for RAn, POn)

0 to 7 (for Manual TAX)

H and I indicate  $A \times 10^B$

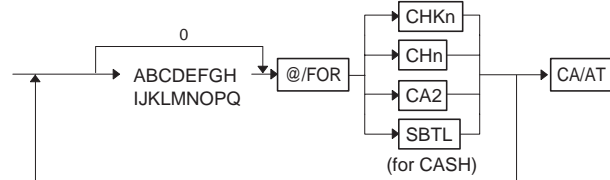
Except the value A and B, any amount over 999999999 can not be entered.

MRS = 19 for RAn, POn

17 for TAX

#### 7) PROGRAMMING FOR MEDIA KEYS & FUNCTION KEYS MODE: PGM2

([SBTL] key is used for programming of CASH.)



A:	CAT	A
	Not	0
	Compulsory	1

B:	CAT action	B
	POST-AUTH	0
	DIAL	1

C:	CAT Type	C
	Credit	0
	Debit	1
	Check	2

D:	Card number is printed	D
	Yes	0
	No	1

E:	Card number print format	E
	Partial	0
	Full	1

F:	CAT signature line print	F
	Yes	0
	No	1

G:	CAT expiration printing	G
	Yes	0
	No	1

H: Number of CAT authorization receipts = 0 to 9

I:	SLIP PRINT	I
	Non-compulsory	0
	Compulsory	1

J:	Footer print on Receipt	J
	No	0
	Yes	1

K:	Non-add code entry	K
	Non-compulsory	0
	Compulsory	1

L:	Change due	L
	Enable	0
	Disable	1

M:	VP	M
	Non-compulsory	0
	Compulsory	1

N:	Drawer opening	N
	Yes	0
	No	1

O:	Entry of amount tendered	O
	non-compulsory (Cash, Check) inhibit (Credit)	0
	compulsory	1

P: HALO Mantissa = 0 to 9

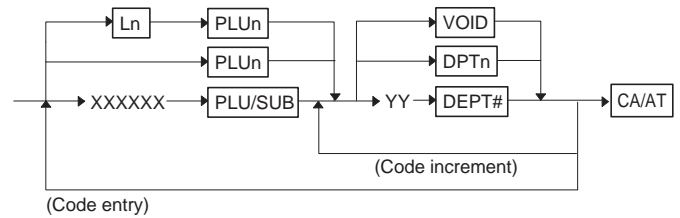
Q: HALO Exponent = 0 to 8

I and J indicate  $I \times 10^J$

Except the value I and J, any amount over 99999999 can not be entered.

MRS = 00000000000000018 (CA, CHKn, CHn)

## 8) PROGRAMMING OF ASSOCIATED DEPARTMENT FOR PLU MODE: PGM1, PGM2



Ln: MENU LEVEL (1-3)

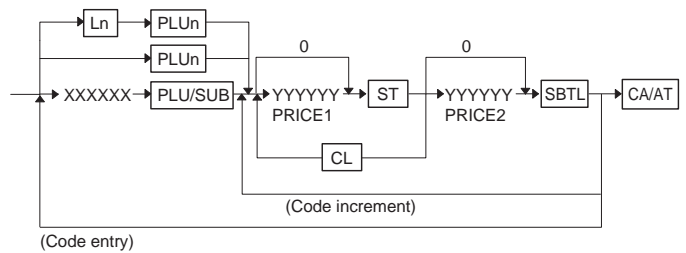
XXXXXX: PLU CODE (1-999999)

YY: DEPT CODE (1-99)

When a DEPT is assigned to a deleted or new PLU, the PLU is set the MRS value with exception of the presets of the associated DEPT.

MRS = DEPT1 (PLU1-PLU20)

## 9) PLU UNIT PRICE MODE: PGM1, PGM2



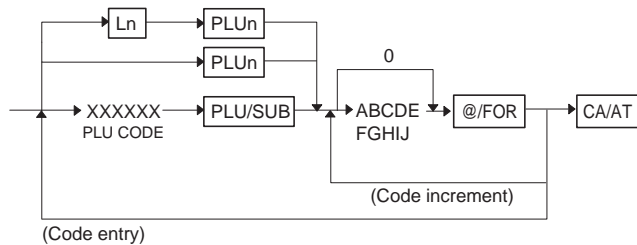
XXXXXX: PLU CODE (1-999999)

YYYYYY: UNIT PRICE (6 digits)

When a DEPT is assigned to a deleted or new PLU, the PLU is set the MRS value with exception of the presets of the associated DEPT.

MRS = Price: 0, Price2: 0 (PLU1-PLU20)

## 10) PLU FUNCTION PROGEAMMING MODE: PGM2



XXXXXX: PLU CODE (1-999999)

A: Commission group No. = 0 to 9

B: Sign	B
+	0
-	1

C: Food stampable	C
No	0
Yes	1

D: Taxable 4	D
No	0
Yes	1

E: Taxable 3	E
No	0
Yes	1

F: Taxable 2	F
No	0
Yes	1

G: Taxable 1	G
No	0
Yes	1

H: Tare Table No. = 9 to 1, 0

I: Scale entry	I
Inhibit	0
Enable	1
Compulsory	2

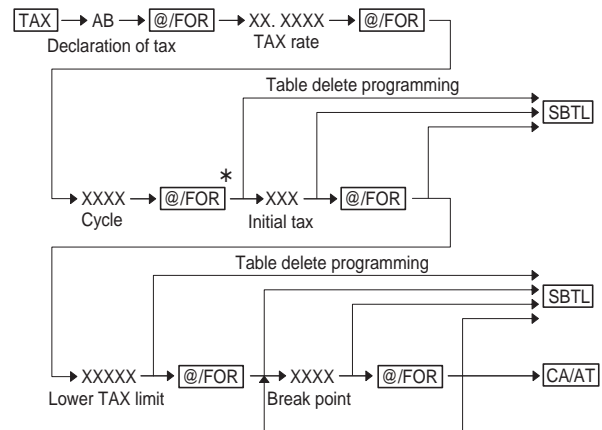
J: Amount entry type	J
Inhibit	0
Open only	1
Preset only	2
Open & Preset	3

When a DEPT is assigned to a deleted or new PLU, the PLU is set the MRS value with exception of the presets of the associated DEPT.

MRS = 00001200 (PLU1 to PLU20)

(Sign +, Taxable 1, Preset only, Commission: 0, Base quantity: 0)

## 11) TAX TABLE PROGRAMMING MODE: PGM2



72 BREAKPOINTS CAN BE PROGRAMMED FOR EACH TAXTABLE.  
(If the interval between break points is 1 dollar or more and less than 100 dollar, a maximum of 36 break points is programmed for each table.)

\*DEPRESSION OF THE SBT L KEY AT THE FOLLOWING POINTS  
WILL RESULT IN A TAX TABLE DELETE OPERATION.

A: INTERVAL BETWEEN BREAKPOINTS	A
1 DOLLAR OR MORE AND LESS THAN 100 DOLLAR	1
BELOW 1 DOLLAR	0

B: TAX TABLE No.	A
TABLE4	4
TABLE3	3
TABLE2	2
TABLE1	1

TAX RATE: 0.0001-99.9999

CYCLE: 0-9999

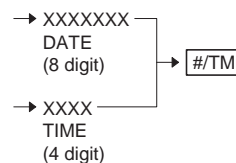
INITIAL TAX: 0-999

LOWER TAX LIMIT: 0-99999

BREAK POINT: 0-99999

MRS = NO TAX

## 12) DATE/TIME PROGRAMMING MODE: PGM2



DATE) XXXXXXXX: YYYYMMDD or DDMMYYYY or MMDDYYYY  
(YYYY: 2000-2099)  
(MM: 01-12)  
(DD: 01-31)

The date entry format complies with SRV#912-A.

TIME) HH: Hour (00 to 23)

MM: Minute (00 to 59)

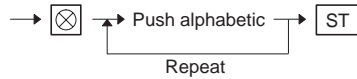
The time entry does not complies with SRV#912-B.

MRS = 01/01/2000 (DDMMYYYY)

00:00

## 4. CHARACTER ASSIGNMENT METHOD

~ Using the alphabetic assignment method ~



### Programming key layout

#### ER-A410

		(NUM)	(SPACE)	Ø	(DC)	(SHIFT-2)	(SHIFT)	¢ æ (BACK SPACE)
↑ RECEIPT	↑ JOURNAL	@/FOR	•	CL	" A	" F	# K	\$ P
(~)	(^)	7	8	9	' B	* G	@ L	/ Q
(")	(~)	4	5	6	: C	; H	' M	. R
(^)	(^)	1	2	3	+ D	- I	= N	¢ S
(°)	(")	0	00		< E	> J	Pt O	£ T
								SBTL
								CA/AT/NS

#### ER-A420

↑ RECEIPT	↑ JOURNAL	←	→	◀	▶	↑	↓	"	"	Ñ	¿	{	}	[	]	(BACK SPACE)
!	@	#	\$	%	^	&	*	(	)	'	?	<	>			
1	2	3	4	5	6	7	8	9	0	+	-	@/FOR	•	CL		
Q	W	E	R	T	Y	U	I	O	P	_		7	8	9		
A	S	D	F	G	H	J	K	L	/	=		4	5	6		
	Z	X	C	V	B	N	M	:	:			1	2	3		
(SHIFT)	(DC)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	,	.			0	00		SBTL	CA/AT

#### Notes:

- The programming keyboard sheet is transparent, allowing placement over the standard keyboard sheet.
- The shaded area contains the character keys which are used for programming characters.

[(DC)] : Used to enter the double-size character.  
 [(SHIFT)] : Used to change a lower-case letter/upper-case letter.  
 [(SHIFT2)] : Used to select a symbol.  
 [(BACK SPACE)] : Used to back up the cursor for deleting.  
 [(SPACE)] : Used to enter a space.  
 [(Num)] : Used to enter a numeric character.



#### 4 Using ten key of ECR



Note: [00] key is used to enter each 3 digit alpha code.

#### Examples

→ " A = A is set  
 " A [(Shift-2)] → " A = " is set  
 [(DC)] → " A = A (double character code) is set  
 [(Shift)] → " A = a (lowercase letter) is set

\*Once the [(Shift)] key is pressed, it stays down until it is pressed again.



**<Character Code Table for text programming> Printing**

CODE	CHARACTER
001	á
002	â
003	ê
004	î
005	ì
006	í
007	ô
008	ó
009	û
010	ú
011	œ
012	Û
013	ù
014	ö
015	ó
016	Λ
017	Ψ
018	Γ
019	..
020	Ω
021	Δ
022	Θ
023	Ξ
024	Π
025	Σ
026	Υ
027	Φ
028	Û
029	Ú
030	Ö
031	Ó
032	(Space)
033	!
034	"
035	#
036	\$
037	%
038	&
039	'
040	(
041	)
042	*
043	+
044	,
045	—
046	.
047	/
048	0

049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	<
061	=
062	>
063	?
064	@
065	A
066	B
067	C
068	D
069	E
070	F
071	G
072	H
073	I
074	J
075	K
076	L
077	M
078	N
079	O
080	P
081	Q
082	R
083	S
084	T
085	U
086	V
087	W
088	X
089	Y
090	Z
091	Ä
092	Ö
093	Ü
094	^
095	_
096	`
097	a

098	b
099	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	
125	}
126	ß
127	ç
128	!!
129	1
130	2
131	3
132	4
133	1/2
134	F <sub>T</sub>
135	←
136	→
137	∞
138	∞
139	►
140	◄
141	F
142	T
143	↓
144	ç
145	°
146	ı

147	Û
148	à
149	Æ
150	φ
151	Å
152	□
153	é
154	è
155	Pt
156	ı
157	Ñ
158	:
159	£
160	¥
161	°
162	Γ
163	J
164	,
165	.
166	T <sub>1</sub>
167	T <sub>2</sub>
168	T <sub>3</sub>
169	T <sub>4</sub>
170	1 <sub>2</sub>
171	1 <sub>3</sub>
172	1 <sub>4</sub>
173	2 <sub>3</sub>
174	2 <sub>4</sub>
175	3 <sub>4</sub>
176	⊠
177	Á
178	Í
179	
180	Ā
181	ā
182	Ē
183	ē
184	Ī
185	ī
186	Ū
187	ū
188	Ŋ
189	ŋ
190	Č
191	Š
192	č
193	š
194	Ġ
195	Ş

196	Ğ
197	ğ
198	Ɔ
199	ƙ
200	Ł
201	ł
202	Ž
203	Đ
204	đ
205	Č
206	ć
207	€
208	P
209	`
210	ě
211	š
212	č
213	ž
214	ý
215	ù
216	ň
217	ˇ
218	˘
219	ř
220	
221	
222	
223	
224	*
225	§
226	Ø
227	^
228	↑
229	]
230	[
231	ˆ
232	ä
233	ö
234	ü
235	æ
236	å
237	É
238	ñ
253	DC

Note: The above character chart is for your reference.  
Please check the actual print out.

(DC): Double Code

: ECR Control Character (Not used for text)

**<Character Code Table for text programming> Display**

CODE	CHARACTER
001	á
002	â
003	ê
004	î
005	ì
006	(Space)
007	Ô
008	ó
009	û
010	ú
011	(Space)
012	Û
013	û
014	ö
015	ó
016	Λ
017	Ψ
018	Γ
019	(Space)
020	Ω
021	Δ
022	Θ
023	Ξ
024	Π
025	Σ
026	Υ
027	Φ
028	Û
029	Ú
030	Ö
031	Ó
032	(Space)
033	!
034	"
035	#
036	\$
037	%
038	&
039	'
040	(
041	)
042	*
043	+
044	,
045	—
046	.
047	/
048	0

049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	<
061	=
062	>
063	?
064	@
065	A
066	B
067	C
068	D
069	E
070	F
071	G
072	H
073	I
074	J
075	K
076	L
077	M
078	N
079	O
080	P
081	Q
082	R
083	S
084	T
085	U
086	V
087	W
088	X
089	Y
090	Z
091	Ä
092	Ö
093	Ü
094	^
095	—
096	`
097	a

098	b
099	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	
125	}
126	ß
127	¢
128	!
129	1
130	2
131	3
132	4
133	(Space)
134	(Space)
135	←
136	→
137	(Space)
138	(Space)
139	►
140	◄
141	F
142	T
143	(Space)
144	ç
145	°
146	ı

147	Û
148	à
149	Æ
150	φ
151	Å
152	□
153	é
154	è
155	Pt
156	i
157	Ñ
158	ò
159	(Space)
160	¥
161	.
162	[
163	]
164	,
165	(Space)
166	(Space)
167	(Space)
168	(Space)
169	(Space)
170	(Space)
171	(Space)
172	(Space)
173	(Space)
174	(Space)
175	(Space)
176	(Space)
177	Á
178	(Space)
179	(Space)
180	(Space)
181	(Space)
182	(Space)
183	(Space)
184	(Space)
185	(Space)
186	(Space)
187	(Space)
188	(Space)
189	(Space)
190	Č
191	Š
192	ç
193	İ
194	(Space)
195	Ş

196	(Space)
197	(Space)
198	(Space)
199	(Space)
200	(Space)
201	(Space)
202	Ž
203	(Space)
204	(Space)
205	(Space)
206	ć
207	€
208	P
209	(Space)
210	ě
211	š
212	č
213	ž
214	ý
215	ù
216	ň
217	˘
218	(Space)
219	ř
220	(Space)
221	(Space)
222	(Space)
223	(Space)
224	*
225	(Space)
226	Ø
227	^
228	(Space)
229	]
230	[
231	(Space)
232	ä
233	ö
234	ü
235	æ
236	å
237	É
238	ñ
253	DC

Note: The above character chart is for your reference.  
Please check the actual print out.

(DC): Double Code

: ECR Control Character (Not used for text)

## CHAPTER 3. OP X/Z, X1/Z1, X2/Z2 MODE

In general, the following sales reports are available:

- 1) OP X/Z reports (individual clerk reports)
- 2) X1/Z1 reports (Daily sales total X and Z reports)
- 3) X2/Z2 reports (Periodic total X and Z reports)
- 4) Flash-read reports (Display sales amount)

In addition to the above reports that are to be used, reports for checking the program are also available.

### [Purpose]

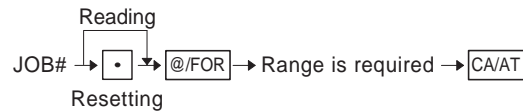
The below reports are each used to check sales data. The intended method of taking these reports are as follows:

OP X/Z reports: These reports are taken by operators in order to report their own sales data.

X1/Z1 reports: These reports are taken by the supervisor or manager in order to check and report daily sales totals at that point.

X2/Z2 reports: These reports are taken by the supervisor or manager in order to check and report periodic (weekly or monthly) totals.

Flash-read: These reports are taken by the owner or manager in order to check and display sales totals at that point.



### [Operation]

In the table below those reports marked with a circle "O" can be executed.

#### PRINTING REPORT

REPORT NAME	JOB#	MODE *1						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
GENERAL	x00			O	O	O	O		*2
DEPT (ALL GROUP)	x10			O		O			*2
DEPT (INDIVIDUAL GROUP)	x12			O		O		GROUP No.	*3
GROUP TOTAL	x13			O		O			*2
PLU	x20			O	O	O	O	PLU CODE	*4
PLU (DEPT)	x21			O	O	O	O	DEPT CODE	*3
PLU STOCK	x24			O				PLU CODE	*4
PLU ZERO SALES	x27			O		O			*2
PLU PRICE CATEGORY	x29			O		O		PRICE	*4
TRANSACTION	x30			O		O			*2
CID	x31			O		O			*2
COMMISSION	x32			O		O			*2
CASHIER (ALL)	x50			O	O	O	O		*2, *7
CASHIER (INDIVIDUAL)	x51	O	O						*2, *5, *7
CASHIER (INDIVIDUAL)	x51			O	O	O	O	CASHIER CODE	*6, *7
HOURLY (ALL)	x60			O	O				*2
HOURLY (RANGE)	x60			O				TIME	*4
DAILY NET	x70					O	O		*2
PBLU	x80			O	O			PBLU CODE	*4
PBLU (CASHIER)	x81			O	O			CASHIER CODE	*2
STACK REPORT	x90			O	O	O	O		*8

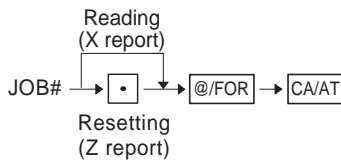
JOB# : 'x' is 1 for X1/Z1 mode, 2 for X2/Z2 mode, and 0 or nothing for OPX/Z mode.

## FLASH READING REPORT

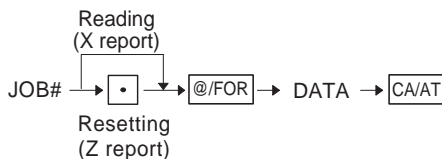
REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
DEPARTMENT	[DPTn]			○					*9
DEPARTMENT	XX [DEPT#]			○				XX = DEPT CODE (2 digit)	*9
CID	[X]			○					*9
PAID TOTAL	[SBTL]			○					*9

- \*1 MODE: X: Daily operator X report    Z: Daily operator Z report  
           X1: Daily X report                Z1: Daily Z report  
           X2: Periodic X report            Z2: Periodic Z report  
           (X report) : The corresponding data is held in the ECR.  
           (Z report) : The corresponding data is cleared in the ECR.

- \*2 To read respective reports, it is necessary to follow the procedure below.

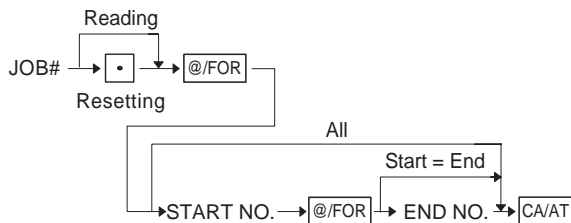


- \*3 To read respective reports, it is necessary to follow the procedure below.



(DATA): GROUP No. (2 digit) (1-9)  
 DEPT CODE (2 digit)

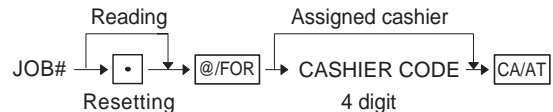
- \*4 Report range can be specified by entering the starting and ending numbers according to the following procedure.



(START NO.) and (END NO.): PLU CODE (6 digit)  
 PRICE (6 digit)  
 TIME (2digit) (24-hour entry in spite of TIME SYSTEM)  
 PBLU CODE (4 digit)

- \*5 Individual cashier report prints the totals for the assigned cashier.

- \*6 When the cashier code is not entered, the individual cashier report is issued for all cashiers. And when cashier code is entered, the individual cashier report is issued about the cashier.



- \*7 When CCD is COMPULSORY for ALL CASHIERS:

Until ALL CASHIER RESETTNG is done, any other reports that reports the CID totals can not be executed.

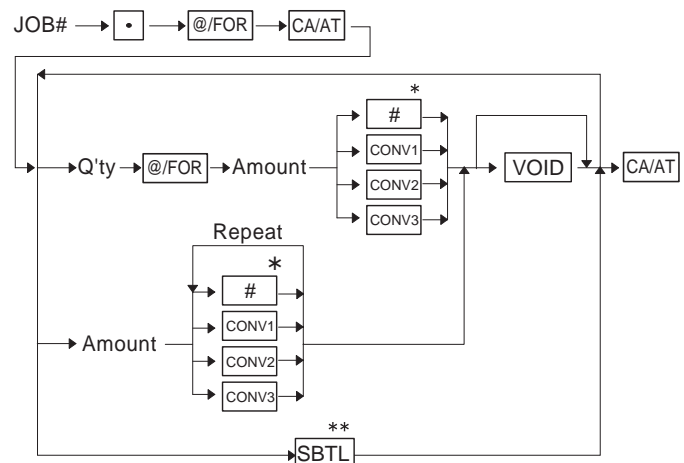
The key sequence for the ALL CASHIER RESETTNG are unique and are outlined below.

In case of Compulsory CCD for the INDIVIDUAL CASHIER:

Until ALL CASHIER RESETTNG is done, any other reports that reports the CID totals can not be executed.

The key sequence for the INDIVIDUAL CASHIER RESETTNG is unique and is outlined below.

### <CCD ENTRY>

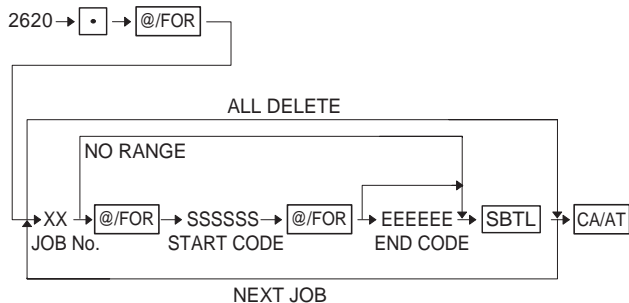


- \*: [#] is used for CASH and CHECK amount entry.

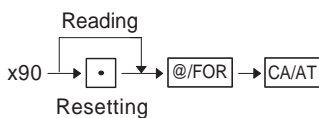
- \*\* : The total CASH and CHECK amount entered by [#] can be displayed by [SBTL].

\*8 The stacked report function enables different reports to be printed successively with a single reporting operation.

The programming for the stacked reports can be accomplished by performing the following key operation in the PGM2 mode.



Stacked reports can be printed by performing the following key operation in the X1/Z1 and X2/Z2 modes.



If an ineligible job code of a report within the stacked report preset is programmed, it is ignored (that report is not printed).

Also, if stacked reports include any other reports for which a Z reports can not be taken, the reports are ignored and are not printed.

A maximum of 15 different reports can be printed successively with a single reporting operation.

Those 15 reports can include those reports that are identical in code number. In this case, however, if any data changes due to the printing of the previous report, the changed data is printed on the following report.

For example:

Consecutive number: The counter is incremented by one.

Z report: Data is reset to zero.

\*9 Reading display only.

The displayed amount can be cleared by [CL] key.



## [Action]

Individual counters for the following Z reports are incremented when those reports are printed.

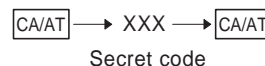
- 1) General daily total report (Z1)
- 2) General periodic total report (Z2)
- 3) Hourly report (Z1)
- 4) Daily net total report (Z2)
- 5) PLU report (Z1/Z2)
- 6) Individual Cashier and All Cashier report (Z1/Z2)

## [Additional function]

- (1) Secret code entry

When printing reports in the X1/Z1 mode and X2/Z2 mode, if a secret code has been preset, the code must be entered prior to performing key operation to take reports.

The secret code can be entered following the procedure shown below.



- (2) Overflow mark

If the amount or quantity in any totalizer other than the GT to be printed on an X or Z reports exceeds a programmed limit, the indication mark (overflow mark) is printed for the totalizer concerned.

Q'TY: Max. 7 (-9999999~+9999999)

AMOUNT: Max. 9 (-999999999~+999999999)

The overflow mark may be printed even if a totalizer does not reach the maximum amount. This occurs, for example, when the amount or quantity in the totalizer gets smaller than the maximum amount due to the entry of a negative amount after the overflowing of the totalizer. This means that when the totalizer overflows once, the overflow mark (for example, "!!") is printed.

- (3) MODE TITLE

Each report prints a MODE TITLE at a header of report.

The Report Titles are as follows.

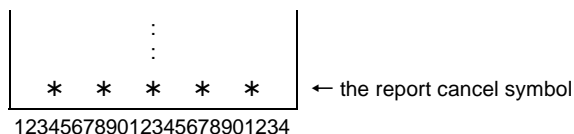
OPX report	#051 *OPX*
OPZ report	#051 *OPZ*
X1 report	#151 *X 1*
Z1 report	#151 *Z 1*
X2 report	#251 *X 2*
Z2 report	#251 *Z 2*

- (4) Report cancel function

All report printing can be stopped.

Printing can be cancelled by turning the mode switch to MGR position while the data is printing. (In this case, the contents of memory are not cleared.)

<Print sample of Report cancel>



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